

DETAILED PROGRAM

SUNDAY AUGUST 29th

- 16.00 – 19.00 Registration (*Main Auditorium, Via Mattioli, 10*)
19.30 Welcome Party

MONDAY AUGUST 30th

- 8.00 – 9.00 Registration
9.00 – 9.05 **OPENING REMARKS**
D.F. Hochstrasser, G. Corthals, J.-C. Sanchez, L. Bini, S. Liberatori, V. Pallini
9.05 – 9.15 **WELCOME ADDRESS**
P. Tosi (President of Siena University)
G.M. Rossolini (Director, Department of Molecular Biology)

OPENING MAIN LECTURE

- 9.15 – 10.00 **TEN YEARS OF THE PROTEOME: HISTORY, PERSPECTIVES AND THE FUTURE**
M.R. Wilkins (*Sydney, Australia*)

PLENARY SESSION 1

PROTEOME OVERVIEW

Chairpersons: D.F. Hochstrasser, V. Pallini

- 10.00 – 10.30 **THE UNIPROT/SWISSPROT HUMAN PROTEOMICS INITIATIVE: CURRENT STATUS AND FUTURE PLANS**
A. Bairoch (*Geneva, Switzerland*)
10.30 – 11.00 **COFFEE BREAK**
11.00 – 11.30 **ADVANCES IN ULTRATRACE LC/MS ANALYSIS FOR BIOMARKER DISCOVERY AND OTHER PROTEOMIC APPLICATIONS**
B.L. Karger (*Boston, USA*)
11.30 – 12.00 **PROTEIN MICROARRAYS: PROMISING TOOLS FOR PROTEOMIC RESEARCH**
T.O. Joos (*Reutlingen, Germany*)
12.00 – 14.00 **LUNCH**

PARALLEL SESSIONS A

MASS SPECTROMETRY I

Chairpersons: R. Aebersold, S. Patterson

14.00 – 14.30

MS AND TANDEM MS FOR GLYCOTAG DISCOVERY

J. Peter-Katalinic (*Muenster, Germany*)

14.30 – 15.00

A NOVEL QUALITATIVE AND QUANTITATIVE LC-MS BASED APPROACH TO PROTEIN PROFILING AND BIOMARKER DISCOVERY

S. Geromanos, K. Richardson, P. Young, R. Denny, K. Neeson, T. McKenna, C. Doreschel, M. Gorenstein, G.-Z. Li, T. Riley, J.C. Silva, J. Langridge (*Milford, MA, USA; Manchester, UK*)

15.00 – 16.30

**POSTER SESSION 1
AND COFFEE BREAK**

MASS SPECTROMETRY II

Chairpersons: S. Patterson, R. Aebersold

16.30 – 17.00

BOTTOM UP ANALYSIS: A COMPARATIVE STUDY FOR DATA ACQUISITION AND DATA PROCESSING STRATEGIES IN THE ANALYSIS OF COMPLEX MIXTURES BY LC-MS/MS

W. Bienvenut, J. Barblan, A. Potts, M. Quadroni (*Epalinges, Switzerland*)

17.00 – 17.30

MOLECULAR CHARACTERIZATION OF HUMAN PLASMA LIPOPROTEINS

M. Heller, E. Schlappritz, D. Stalder, G. Hayn, U. Matter, A. Haeberli (*Bern, Flamatt, Switzerland*)

17.30 – 18.00

A MULTIPLEXED, PRECISE, FAST AND SENSITIVE PRECURSOR ION SCAN LIKE ANALYSIS MODE FOR QUADRUPOLE TIME OF FLIGHT INSTRUMENTS COMPATIBLE WITH CHROMATOGRAPHIC SEPARATION

R. Niggeweg, T. Köcher, M. Gentzel, M. Wilm (*Heidelberg, Germany*)

MASS SPECTROMETRY ROUNDTABLE

Chairpersons: R. Bradshaw, M. Dunn, B. Hancock

18.00 – 18.30

GUIDELINES FOR THE PUBLICATION OF PROTEIN IDENTIFICATION DATA

PARALLEL SESSIONS B

ONCOLOGY I

Chairpersons: S. Liberatori, D. Goodlett

- 14.00 – 14.30 **PROTEOMIC CHARACTERIZATION OF THE INTERSTITIAL FLUID PERFUSING THE BREAST TUMOR MICROENVIRONMENT: A NOVEL RESOURCE FOR BIOMARKER AND THERAPEUTIC TARGET DISCOVERY**
J.E. Celis, P. Gromov, T. Cabezón, J.M.A. Moreira, N. Ambartsumian, K. Sandelin, F. Rank, I. Gromova (*Copenhagen, Denmark*)
- 14.30 – 15.00 **PROTEOMIC GLOBAL PROFILING FOR CANCER BIOMARKER DISCOVERY**
S. Hanash (*Seattle, USA*)

**POSTER SESSION 1
AND COFFEE BREAK**

15.00 – 16.30

ONCOLOGY II

Chairpersons: D. Goodlett, S. Liberatori

- 16.30 – 17.00 **CHARACTERIZATION OF PROTEIN EXPRESSION IN BRAIN TUMORS USING DUPLEX AND MULTIPLEX STABLE ISOTOPE LABELING**
P. Juhasz, K. Parker, S. Hattan, J. Marchese, B. Williamson, D. Pappin, S. Martin, H. Saya, H. Nakamura, N. Araki (*Framingham, MA, USA; Kumamoto, Japan*)
- 17.00 – 17.30 **PROTEOMIC ANALYSIS OF COLORECTAL CANCER: STRATEGIES FOR NOVEL BIOMARKER DISCOVERY**
R.J. Simpson, H. Ji, D. Frecklington, R.L. Moritz (*Parkville, Australia*)
- 17.30 – 18.00 **PROTEOMICS OF RENAL CANCER**
R.E Banks (*Leeds, UK*)

MASS SPECTROMETRY ROUNDTABLE

Chairpersons: R. Bradshaw, M. Dunn, B. Hancock

- 18.00 – 18.30 **GUIDELINES FOR THE PUBLICATION OF PROTEIN IDENTIFICATION DATA**

NOBEL LECTURE

9.00 – 9.45 **GENE PRODUCTS WITH EVOLUTIONARY FUNCTIONS**
W. Arber (*Basel, Switzerland*)

PLENARY SESSION 2
PROTEOME IMAGING

Chairpersons: M. Wilkins, H. Langen

9.45 – 10.15 **DECIPHERING PROTEIN PATTERNS FROM CANCER TISSUE FOR PREDICT
DISCOVERY OF UNIQUE SETS OF BIOMARKERS TO AID DIAGNOSIS AND
CLINICAL OUTCOMES**
R.M. Caprioli (*Nashville, TN, USA*)

10.15 – 10.45 **PEPTIDOMIC ANALYSIS OF PLASMA SAMPLES AFTER ORAL ADMINISTRATION OF
GLUCOSE**
H. Tammen, I. Schulte, M. Kellmann, M. Schrader, R. Hess, P. Schulz-Knappe (*Hannover, Germany*)

10.45 – 11.10 **COFFEE BREAK**

11.10 – 11.40 **DIRECT MASS SPECTROMETRIC IMAGING OF BIOMATERIALS**
R.M.A. Heeren, S. Luxembourg, S. R. Piersma, A.F.M. Altelaar, T.H. Mize, L.A. McDonnell
(*Amsterdam, The Netherlands*)

11.40 – 12.10 **MALDI MASS SPECTROMETRIC IMAGING APPLIED TO BIOMEDICAL RESEARCH**
M. Stoeckli, D. Staab, T. Rohner (*Basel, Switzerland*)

12.10 – 12.40 **WHY NOT EXPLOIT MS DATA TO ITS FULLEST? USING DATA-REDUNDANCY IN
MASS SPECTRA**
D. Walther, M. Quadroni, S. Catherinet, J. Burgess, C.G. Zimmermann-Ivol, J.C. Sanchez, D.F.
Hochstrasser, R.D. Appel (*Geneva, Lausanne, Switzerland*)

12.40 – 14.30 **LUNCH**

PARALLEL SESSIONS A

BIOMARKERS I

Chairpersons: J-C. Sanchez, N. Packer

14.30 – 15.00 **THE DIAGNOSTIC PROTEOME: ADVANCES IN QUANTITATION OF CANDIDATE MARKERS FOR CLINICAL VALIDATION**

L. Anderson (*Washington, USA*)

15.00 – 15.30 **PROTEOMIC STUDY OF SERUM FROM 2500 PREGNANT WOMEN AT FIRST AND THIRD TRIMESTER OF PREGNANCY**

I. Cusin, A. Bairoch, N. Barrillat, T. Baussant, C. Boiteau, L. Bougueleret, N. Budin, S. Carraud, D. Chiappe, N. Christmann, J. Colinge, I. Fasso, A. Gleizes, E. Gonzalez-Couto, F. Grange, D. Hochstrasser, A. Karmine, T. Kowall, S. Lagache, E. Mahe, H. Mattou, M. Moniatte, A. Niknejad, F. Perret, N. Pinaud, S. Reffas, P-O. Regamey, P-A. Rey, P. Rodriguez-Tome, K. Rose, G. Rossellat, C. Saudrais, C. Zwahlen (*Meyrin/GE, Switzerland*)

**POSTER SESSION 2
AND COFFEE BREAK**

15.30 – 17.00

BIOMARKERS II

Chairpersons: N. Packer, J-C. Sanchez

17.00 – 17.30 **FROM SPOTS TO EARLY PLASMATIC DIAGNOSTIC MARKERS OF ISCHEMIC STROKE**

L. Allard, P. Lescuyer, J. Burgess, W. Nadia, P. Burkhard, D.F. Hochstrasser, J-C. Sanchez (*Geneva, Switzerland*)

17.30 – 18.00 **IDENTIFICATION OF MHC CLASS II-ASSOCIATED PEPTIDES IN THE SYNOVIAL FLUID OF PATIENTS WITH RHEUMATOID ARTHRITIS (RA)**

G. Buurman, S. Regenass, A. Tyndall, H. Langen, H. Kropshofer, A.B. Vogt (*Basel, Switzerland*)

18.00 – 18.30 **IDENTIFICATION OF CYTOPROTECTIVE PROTEINS ASSOCIATED WITH LONG-TERM SURVIVAL FOLLOWING HEART TRANSPLANTATION**

M. Dunn, A.I. De Souza, E. M^cGregor, R. Wait, A. Mitchell, N.R. Banner, M.L. Rose (*London, Harefield, UK*)

20.00 **SOCIAL DINNER**

PARALLEL SESSIONS B

BIOKNOWLEDGE I

Chairpersons: B.L. Karger, J. Bergeron

14.30 – 15.00 **ANNOTATION OF THE HUMAN GENOME WITH PEPTIDE SEQUENCES OBTAINED BY HIGH THROUGHPUT MASS SPECTROMETRY**
F. Desiere, E. Deutsch, P. Mallick, A. Nesvizhskii, J. Eng, R. Aebersold (*Seattle, USA; Lausanne, Zurich, Switzerland*).

15.00 – 15.30 **THE PROTEOME IN EVOLUTION**
J. Klose (*Berlin, Germany*)

**POSTER SESSION 2
AND COFFEE BREAK**

15.30 – 17.00

BIOKNOWLEDGE II

Chairpersons: J. Bergeron, B.L. Karger

17.00 – 17.30 **FUNCTIONAL PROTEOMICS**
P. Pucci (*Napoli, Italy*)

17.30 – 18.00 **A FRAMEWORK TO INTEGRATE DNA SEQUENCE, MRNA EXPRESSION PROFILES AND PROTEIN EXPRESSION PROFILES IN *ESCHERICHIA COLI***
K.H. Lee, L.B. Shaw, K. Aggarwal, L.H. Choe, P.S. Lee, R.S. Kuczynski, A. Mehra, V. Hatzimanikatis (*Ithaca, NY; Evanston, IL, USA*)

18.00 – 18.30 **INTERACTION PROTEOMICS: A PHYSICAL & FUNCTIONAL MAP OF THE HUMAN TNF α /NF- κ B SIGNAL TRANSDUCTION PATHWAY**
T. Bouwmeester, A. Bauch, H. Ruffner, P.-O. Angrand, G. Bergamini, K. Croughton, C. Cruciat, D. Eberhard, J. Gagneur, S. Ghidelli, C. Hopf, B. Huhse, R. Mangano, A.-M. Michon, M. Schirle, J. Schlegl, M. Schwab, M. A. Stein, A. Bauer, G. Casari, G. Drewes, A.-C. Gavin, D. B. Jackson, G. Joberty, G. Neubauer, J. Rick, B. Kuster, G. Superti-Furga (*Heidelberg, Germany*)

20.00 **SOCIAL DINNER**

**PLENARY SESSION 3
PROTEOME LABELLING**

Chairpersons: G. Corthals, M. Dunn

- 9.00 – 9.30 **COFRADIC: A HIGHLY VERSATILE AND QUANTITATIVE GEL-FREE PROTEOME TECHNOLOGY, SUITED FOR GLOBAL ANALYSIS OF A VARIETY OF POST-TRANSLATIONAL PROTEIN MODIFICATIONS**
K. Gevaert, P. Van Damme, A. Staes, L. Martens, J. Van Damme, H. Demol, S. De Groot, G. Thomas, M. Goethals, M. Puype, J. Vandekerckhove (*Ghent, Belgium*)
- 9.30 – 10.00 **IN VIVO BIOTINYLATION FOR THE DISCOVERY OF VASCULAR MARKERS OF PATHOLOGY**
G. Elia, S. Scheurer, J. Rybak, D. Neri (*Zurich, Switzerland*)
- 10.00 – 10.30 **PROTEIN AND BIOMARKER QUANTITATION USING iTRAQ REAGENTS, A NOVEL SET OF MULTIPLEXED AMINE-SPECIFIC TAGGING REAGENTS**
D.J. Pappin, P.L. Ross, S. Purkayastha, J.D. Haley, J. Peltier, L.R. Zieske
(*Framingham, Foster City, Farmingdale, Salt Lake City, USA*)
- 10.30 – 11.00 **COFFEE BREAK**
- 11.00 – 11.30 **TANDEM MASS TAGS – A NOVEL STRATEGY FOR DIFFERENTIAL QUANTITATIVE ANALYSIS OF COMPLEX PROTEOMES**
C. Hamon, K. Kuhn, S. Kienle, J. Schäfer, J. Schwarz (*Frankfurt am Main, Germany*)
- 11.30 – 12.00 **PROTEOMIC ANALYSIS OF CHANGES IN ACQUIRED DRUG RESISTANCE**
C. Fenselau, Z. Fu, A. Rahbar, R. Strong, F. Hays (*College Park MD, USA*)
- 12.00 – 14.00 **LUNCH**

PARALLEL SESSIONS A

PROKARYOTES

Chairpersons: L. Bini, J. Klose

14.00 – 14.30 **BIOLOGICAL AND MEDICAL APPLICATIONS BY *HELICOBACTER PYLORI* PROTEOMICS**
D. Bumann, A. Krah, F. Schmidt, M. Schmid, R. Stein, T.F. Meyer, T. Aebischer, P.R. Jungblut
(Berlin, Germany)

14.30 – 15.00 **ART-LOVING BUGS:
THE RESURRECTION OF BENOZZO GOZZOLI FROM PISA'S CEMETERY**
P.G. Righetti, P. Antonioli, G. Zapparoli, P. Abbruscato, C. Sorlini, G. Ranalli
(Verona, Milano, Campobasso, Italy)

15.00 – 16.30

**POSTER SESSION 3
AND COFFEE BREAK**

GEL AND STAINING TECHNOLOGIES

Chairpersons: J. Klose, L. Bini

16.30 – 17.00 **SEPHADEX IEF FOR PREFRACTIONATION OF COMPLEX SAMPLES**
A. Görg, O. Drews, A. Köpf, C. Lück, G. Reil, B. Schröter, W. Weiss (Freising-Weihenstephan, Germany)

17.00 – 17.30 **MULTI-VARIABLE ANALYSIS USING DIFFERENCE GEL ELECTROPHORESIS WITH MIXED-SAMPLE INTERNAL STANDARDS TO STUDY TGF α AND ERBB2 SIGNAL TRANSDUCTION**
D.B. Friedman, S.E. Wang, C.A. Whitwell, S. Hill, C.L. Arteaga, R.M. Caprioli (Nashville TN, USA)

17.30 – 18.00 **ABOUT THE MECHANISM OF INTERFERENCE OF SILVER STAINING WITH PEPTIDE MASS SPECTROMETRY**
S. Richert, S. Luche, M. Chevallet, A. Van Dorsseleer, E. Leize-Wagner, T. Rabilloud
(Strasbourg, Grenoble, France)

18.15 **WINE AND CHEESE TASTING**

PARALLEL SESSIONS B

BIOINFORMATICS I

Chairpersons: R.D. Appel, J. Yates

- 14.00 – 14.30 **INTERPRETATION OF LARGE SCALE MS/MS DATA SETS – IMPACT OF
TRANSPEPTIDATION**
H. Schaefer, D. Chamrad, M. Blueggel, K. Marcus, H.E. Meyer (*Bochum, Dortmund, Germany*)
- 14.30 – 15.00 **PHENYX: ABOUT COMPATIBILITY OF HIGH-THROUGHPUT AND PERTINENCE IN
PROTEIN IDENTIFICATION**
P.-A. Binz, A. Masselot, L. Cambria, M. Müller, M. Tuloup, C. Hernandez, R.D.Appel
(*Geneva, Switzerland*)

**POSTER SESSION 3
AND COFFEE BREAK**

15.00 – 16.30

BIOINFORMATICS II

Chairpersons: J. Yates, R.D. Appel

- 16.30 – 17.00 **PROTEOMICS BEYOND GENOMIC FRONTIERS:
ANALYTICAL TECHNOLOGIES AND BIOLOGICAL IMPLICATIONS**
A. Shevchenko (*Dresden, Germany*)
- 17.00 – 17.30 **COMPUTATIONAL TOOLS FOR STANDARDIZED ANALYSIS OF MS-BASED
PROTEOMICS DATA**
A. Keller, J. Eng, X. Li, A. Nesvizhskii, P. Pedrioli, R. Aebersold (*Seattle, USA*)
- 17.30 – 18.00 **ALGORITHMS FOR THE MULTIDIMENSIONAL ANALYSIS OF
MULTIDIMENSIONAL LC-MASS SPECTROMETRY DATA**
B. Schwikowski (*Paris, France*)
- 18.15 **WINE AND CHEESE TASTING**

PLENARY SESSION 4

GLYCOMICS

Chairpersons: J. Peter-Katalinic, D. Pappin

- 9.00 – 9.30 **IMPORTANCE OF “FUNCTIONAL GLYCOMICS” AT THE POST GENOMIC ERA**
N. Taniguchi (*Suita Osaka Japan*)
- 9.30 – 10.00 **GLYCOMICS – DO YOU ALWAYS NEED TO IDENTIFY THE PROTEIN?**
N.H. Packer, H.J. Joshi, B.L. Schulz, N.L. Wilson, L.J. Robinson, N.G. Karlsson (*Sydney, Australia*)
- 10.00 – 10.30 **IS HIGH THROUGHPUT GLYCOPROTEOMICS POSSIBLE?**
C.B. Lebrilla (*Davis, USA*)
- 10.30 – 11.00 **COFFEE BREAK**

PARALLEL SESSIONS A

THERAPEUTIC TARGETS

Chairpersons: L. Anderson, M. Stoeckli

- 11.00 – 11.30 **APPLICATION OF PARALLEL-BASED PROTEOMIC AND TRANSCRIPTOMIC METHODS FOR PHARMACODYNAMIC STUDIES IN DRUG DEVELOPMENT**
S.D. Patterson (*Thousand Oaks, USA*)
- 11.30 – 12.00 **TARGETING CELLULAR PROTEINS FOR THE DEVELOPMENT OF NEW COMPOUNDS WITH ANTI-HERPETIC ACTIVITY**
A. Greco, A. Callé, S. Miszczycha, K. Kindbeiter, Y. Couté, A. Scherl, D.F. Hochstrasser, J.-C. Sanchez, J.-J. Diaz (*Villeurbanne, France; Geneva, Switzerland*)
- 12.00 – 12.30 **SUCCESSFUL PROTEOMICS STRATEGIES FOR PHARMACEUTICAL AND DIAGNOSTIC RESEARCH AND FOR BIOMARKER DISCOVERY**
H. Langen, P. Berndt, M.-L. Hagmann, G. Pestlin, M. Tacke, W. Zolg (*Basel, Switzerland; Germany*)

PARALLEL SESSIONS B

SUBCELLULAR STRUCTURES

Chairpersons: J.-J. Diaz, R. Heeren

- 11.00 – 11.30 **MASS SPECTROMETRY ANALYSIS OF LARGE CELLULAR STRUCTURES**
J.R. Yates, C. Wu, M. MacCoss (*La Jolla, CA, USA*)
- 11.30 – 12.00 **DISCERNING THE PROTEIN COMPOSITION OF SUBCELLULAR FRACTIONS VIA QUANTITATIVE PROTEOMICS: INSIGHTS TO PEROXISOME BIOLOGY**
D.R. Goodlett, M. Marelli, S. Jung, E.C. Yi², S.M. Donohoe, A.I. Nesvizhskii, R. Aebersold, J.J. Smith, R.A. Rachubinski, J.D. Aitchison (*Seattle, USA; Alberta, Canada*)
- 12.00 – 12.30 **PROTEOMICS OF THE EARLY SECRETORY PATHWAY**
J. Bergeron (*Montreal, Quebec, Canada*)
- 12.30 – 14.30 **LUNCH**

CLOSING MAIN LECTURE

14.30 – 15.15

A GLOBAL VIRUS SEARCH ENGINE

N.G. Anderson (*Rockville, MD, USA*)

15.15 – 15.30

CONCLUDING REMARKS

V.Pallini, S. Liberatori, L. Bini, J.-C. Sanchez, G. Corthals, D.F. Hochstrasser

POSTERS

(Alphabetical order sorted by first author)

CORRELATION OF GENE EXPRESSION AND PROTEIN EXPRESSION PROFILES OF RAT MEMBRANE PROTEINS BY LC/MALDI/MSMS USING CLEAVABLE ICAT REAGENTS

F. Abdi, F. Gharahdaghi, M. Minkoff, J. Arriza, T. Defay, M. Mallamaci, M. Peters, M. Stein, A. Williams, M. Lin, K. Waddell
(Framingham MA; Wilmington, DE, USA)

PROTEOMIC PROFILING OF AN *IN VITRO* MODEL OF CARDIAC HYPERTROPHY INDICATES THE INVOLVEMENT OF MODIFIED DESMIN SPECIES IN MITOCHONDRIAL REPOSITIONING.

G. Agnetti, K. Bezstarosti, D. Dekkers, C. Guarnieri, C. M. Calderera, J. M. J. Lamers (Bologna, Italy; Rotterdam, The Netherlands)

DIRECT INTERACTIONS AMONG THE TYROSINE KINASE RECEPTOR RET, THE GDNF AND THE GFR α 1 MOLECULES

A. Amoresano, M. Incoronato, G. Monti, P. Pucci, V. de Franciscis, L. Cerchia (Naples, Italy)

NOVEL METHODS THAT FACILITATE MEMBRANE PROTEIN STUDIES AND ELUCIDATE PROTEIN REDISTRIBUTION AND PHOSPHORYLATION EVENTS.

J. Anders, M. Wehsling, A. Abdolzade-Bavil, D. Matheis, A. Seiler, C. Rüter, S. Andrecht, R. Hendriks (Darmstadt, Germany)

IDENTIFICATION OF VOLTAGE-DEPENDENT ANION CHANNEL (VDAC) IN BOVINE SPERMATOZOA

V.A. Aires, X. Schneider, V. de Pinto, K.D. Hinsch, E. Hinsch (Giessen, Germany; Catania, Italy)

DIFFERENTIAL PROTEIN EXPRESSION ANALYSIS BETWEEN TUMORAL AND NON-TUMORAL TISSUES FROM COLORECTAL CANCER PATIENTS

P. Alfonso, A. Núñez, J. Madoz-Gúrpide, P. López-Serra, J.L. Martínez-Torrecaudrada, I. Casal (Madrid, Spain)

DIFFERENTIAL PROTEIN EXPRESSION ANALYSIS OF THE BREAST CANCER CELL LINE MCF7 AFTER TREATMENT WITH GEMCITABINE

P. Alfonso, A. Núñez, G. Moreno-Bueno, C. Sánchez-Estévez, J. Palacios, I. Casal (Madrid, Spain)

NEUROPEPTIDE AND PROTEIN EXPRESSION CHANGES IN EXPERIMENTAL PARKINSON'S DISEASE USING PROTEOMICS, PEPTIDOMICS AND IMAGING MASS SPECTROMETRY

P.E Andren, M. Svensson, K. Sköld, A. Nilsson, J. Pierson, R.M. Caprioli, P. Svenningsson
(Uppsala, Stockholm, Sweden; Nashville TN, USA)

THE PROTEOME OF HUMAN FOLLICULAR FLUID (HFF) AND FOLLICULOGENESIS

S. Angelucci, P. Moio, F. Di Giuseppe, D. Ciavardelli, P. Palumbo, A. Urbani, G.M. Tiboni, C. Di Ilio (Chieti-Pescara, Italy)

PROTEOMIC ANALYSIS OF *STREPTOCOCCUS THERMOPHILUS*

S. Arena, R. Rullo, G. Renzone, C. D'Ambrosio, L. Ledda, L. Ferrara, A. Scaloni (Naples, Italy)

A NEW DERIVATIZATION REACTION FOR THE ANALYSIS OF SER/THR PHOSPHORYLATION BY MASS SPECTROMETRY

G. Arrigoni, P. James (Padova, Italy; Lund, Sweden)

ANALYSIS OF DIFFERENTIAL PROTEIN EXPRESSION PROFILES IN E2F2 $-/-$ T LYMPHOCYTES

M. Azkargorta, A. Fullaondo, A.M. Zubiaga, F. Elortza, J.M. Arizmendi (Bilbao, Derio, Spain)

N- AND C-TERMINAL SEQUENCING OF PROTEINS BY MALDI RE ISD AND T³

S. Bailey, A. Wattenberg, V. Gruß, P. Weingarten, A. Resemann, D. Suckau, H.E. Meyer, M. Blüggel (Dortmund, Bremen, Germany)

EVALUATION OF MEMBRANE PROTEIN EXPRESSION OF *Acinetobacter radioresistens* S13 DURING GROWTH PHASES BY DIFFERENT IMAGE ANALYSIS SOFTWARE

C. Barello, M. Costa, M.G. Giuffrida, R. Mazzoli, E. Pessione, L. Prunotto, D. Fortunato, C. Giunta
(Colleretto Giacosa, Torino, Italy)

LOW MOLECULAR WEIGHT PROTEIN ISOLATION FROM HUMAN PLASMA. COMPARISON OF ULTRAFILTRATION, SOLVENT EXTRACTION AND REVERSE PHASE CAPTURE AFTER ON LINE GEL FILTRATION

N. Barrillat, N. Christmann, T. Baussant (Meyrin/GE, Switzerland)

LARGE-SCALE TUMOR ANALYSIS FOR BIOMARKER DISCOVERY

S. Bengtsson, M. Krogh, C. Peterson, C. Silfverswärd, G. Auer, A. A. Alaiya, P. James (Lund, Stockholm, Sweden)

DECIPHERING EMBRYO-MATERNAL CROSS-TALK BY HOLISTIC PROTEOME APPROACHES

F. Berendt, T. Fröhlich, E. Wolf, G.J. Arnold (*Munich, Germany*)

MAGNETIC SAMPLE PREPARATION FOR MASS SPECTROMETRY

S. Bergholtz, E. Breivold, D. Gillooly, K. Lycke, P. Songe, G. Fonnum, M. Bosnes (*Oslo, Norway*)

SCAPE: A NEW TOOL FOR THE SELECTIVE CAPTURE OF PEPTIDES IN PROTEIN IDENTIFICATION

L. Betancourt, J. Gil, V. Besada, L. García, L. J. González, J. Fernández-de-Cossio, R. Pajón, F. Alvarez, G. Padrón (*La Habana, Cuba*)

THE MEMBRANE PROTEOME OF HALOBACTERIUM SALINARUM

B. Bisle, C. Klein, C. Garcia-Rizo, B. Scheffer, F. Pfeiffer, F. Siedler, D. Oesterheld (*Martinsried, Germany*)

A PROTEOMICS BASED APPROACH FOR DEVELOPING MONITORING TOOLS FOR BIOLOGICAL EFFECTS OF OIL AND PRODUCED WATER TO FISH

A. Bohne Kjersem, B. K. Larsen, A. Goksøyr, B.E. Grøsvik (*Bergen, Stavanger, Norway*)

SEPARATION OF PROTEINS FROM COPPER TREATED HEMP (CANNABIS SATIVA) ROOTS BY MONO- AND TWO-DIMENSIONAL POLYACRYLAMIDE GEL ELECTROPHORESIS

E. Bona, L. Boatti, N. Massa, O. Repetto, S. Citterio, G. Berta (*Alessandria, Milano, Italy*)

PROTEOMIC ANALYSIS OF NITRATED PROTEINS IN A MOUSE MODEL OF FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS

V. Bonetto, F. Casoni, M. Basso, T. Massignan, E. Gianazza, C. Cheroni, M. Tortarolo, C. Bendotti, M. Salmona (*Milan, Italy*)

A PROTEOMIC APPROACH TO THE STUDY OF HUMAN HEPATOCARCINOMA INDUCED DIFFERENTIATION

P. Bottoni, R. Scatena, G.E. Martorana, F. Ferrari, P. De Sole, C. Rossi, B. Giardina (*Roma, Italy*)

A PROTEOMIC APPROACH FOR THE DISCOVERY OF PROTEASE SUBSTRATES

A.J. Bredemeyer, R.M. Lewis, J.P. Malone, A.E. Davis, J. Gross, R.R. Townsend, T.J. Ley (*St. Louis, Missouri, USA*)

A PROTEOMIC AND GENOMIC APPROACH TO STUDY THE EFFECTS OF β -ENDORPHIN ON ADULT HIPPOCAMPAL PROGENITORS

C. Bull, A. I. Persson, L. Paulson, P. S. Eriksson (*Göteborg, Sweden*)

THE USE OF A NOVEL "PARALLEL PSD" APPROACH FOR THE ANALYSIS OF PROTEIN PHOSPHORYLATION ON A MALDI MASS SPECTROMETER

E. Claude, J.Brown, M. Snel, T. McKenna, A. Wallace, D. Kenny, J. Langridge (*Manchester, UK*)

FULLY AUTOMATED HIGH THROUGHPUT PROTEIN EXPRESSION AND PURIFICATION

G. Cameron (*Cambridgeshire, UK*)

FULLY AUTOMATED 2-DIMENSIONAL ELECTROPHORESIS

G. Cameron (*Cambridgeshire, UK*)

ACCURATE MASS ANALYSIS OF GLYCOPROTEIN ISOFORMS BY ELECTROSPRAY IONISATION, ORTHOGONAL ACCELERATION TIME-OF-FLIGHT MASS SPECTROMETRY AND MAXIMUM ENTROPY

I. Campuzano, H. Brumer, K. Piens, A. Sage, T. McKenna, J. Langridge (*Manchester, UK; Stockholm, Sweden*)

PROTEOMICS OF HUMAN MEMBRANE PROTEINS: USE OF THE TFE CO-SOLVENT IN HUMAN MEMBRANE PROTEIN EXTRACTION AND EVALUATION BY IN-GEL SEPARATION

L. Canelle, C. Pionneau, J. Bousquet, M. Caron, R. Joubert-Caron (*Bobigny, France*)

FISHING OUT INFORMATION FROM THE BULK. COMBINATION OF SEQUEST AND DENOVOX FOR UNAMBIGUOUS PEPTIDE IDENTIFICATION IN DATABASES

B. Cañas, D. López, S. Martínez-Bartolomé, M. Villar, J. Arroyo, F. Martín-Maroto, J. Vázquez (*Madrid, Spain; CA, USA*)

PROTEOME ANALYSIS OF A LOW-VIRULENT HpaA MUTANT STRAIN OF HELICOBACTER PYLORI

E. Carlsohn, J. Nyström, I. Bölin, A-M Svennerholm, C.L. Nilsson (*Göteborg, Sweden*)

REDUCTION OF SAMPLE COMPLEXITY FOR IDENTIFICATION OF LOW- ABUNDANCE AND LOW-SOLUBILITY PROTEINS IN HUMAN CELL LINES

M. Caron, C. Pionneau, J. Bousquet, L. Canelle, R. Joubert-Caron (*Bobigny, France*)

PREPARATION OF EXTRACTS FROM RECALCITRANT PLANT TISSUE: AN EVALUATION OF DIFFERENT METHODS FOR 2D PAGE ANALYSIS

S.C. Carpentier, B. Panis, R. Swennen (*Leuven, Belgium*)

BRAIN PROTEOME CHANGES IN TRANSGENIC MOUSE MODELS OF ALZHEIMER'S DISEASE

O. Carrette, J. Burgess, J. Hamel, N. Walter, D.F. Hochstrasser, J.-C. Sanchez (*Geneva, Switzerland*)

LUNG EPITHELIA OF CYSTIC FIBROSIS TRANSGENIC MICE BY MASS SPECTROMETRY ANALYSIS

I. Carvalho-Oliveira, T. Luider, D. Penque, B.J. Scholte (*Lisboa, Portugal; Rotterdam, The Netherlands*)

PROTEOMIC APPROACH TO BLOSSOM-END ROT IN TOMATO (*LYCOPERSICON ESCULENTUM* M.), INVOLVEMENT OF ANTIOXIDANT ENZYMES AND THE PENTOSE PHOSPHATE PATHWAY

J. Casado, S. Sellés, E.C. Estewart, I. Davidson, P. Cash, R. Bru (*Alicante, Spain; Aberdeen, UK*)

ISOELECTRIC BEADS FOR PROTEOME PRE-FRACTIONATION. II: EXPERIMENTAL VALIDATION IN A MULTICOMPARTMENT ELECTROLYZER

A. Castagna, P.G. Righetti, F. Fortis, O. Brieau, P. Girot, E. Boschetti (*Verona, Italy; Cergy-Pontoise, France*)

2-DE ANALYSIS OF THE PROTEIN PROFILE IN HEALTHY AND BROOMRAPE (*OROBANCHE CRENATA*)-INFECTED *MEDICAGO TRUNCATULA* ROOT TISSUE

M. Á. Castillejo, E. Dumas-Gaudot, Diego Rubiales, J.V. Jorrín (*Córdoba, Spain; Dijon, France*)

BIOMARKERS OF CELL RESPONSES TO ENVIRONMENTAL STRESSORS: CLASSICAL APPROACHES ARE INTEGRATED BY PROTEOMIC ANALYSIS

M. Cavaletto, G. Pesce, F. Marsano, E. Ranzato, D. Pampanin, F. Dondero, V. Magnelli, A. Viarengo (*Alessandria, Venice, Italy*)

PROTEOMIC ANALYSIS OF FLUOXETINE-INDUCED MOLECULAR CHANGES IN RAT CORTICAL NEURONAL CULTURES

D. Ceconi, S. Mion, H. Astner, L. Carboni, E. Domenici, M. Hamdan, P.G. Righetti (*Verona, Italy*)

PROTEIN EXPRESSION PROFILING OF HUMAN ENDOTHELIAL CELLS DURING *IN VITRO* AGING: DOES SEX HAVE AN INFLUENCE?

M. Chang, R. Voglauer, V. Gruber, H. Katinger, J. Grillari (*Vienna, Austria*)

SCALABLE DEPLETION OF ABUNDANT LOW MOLECULAR WEIGHT PROTEINS IN HUMAN PLASMA

N. Christmann, S. Carraud, T. Baussant (*Meyrin/GE, Switzerland*)

IDENTIFICATION OF BIOMARKERS FOR PEROXISOME PROLIFERATION AND ITS ASSOCIATED HEPATOCARCINOMAS BY PROTEOMICS APPROACHES

R. Chu, H. Lim, L. Brumfield, H. Liu, J.K. Reddy, M. Davison (*Bridgewater, NJ; Chicago, IL, USA*)

PROTEIN IDENTIFICATION FROM COMPLEX PROTEIN MIXTURES WITH PARALLEL PSD

E. Claude, M. Snel, D. Kenny, A. Wallace, J. Brown, S. Berger, T. McKenna, J. Langridge. (*Manchester, UK; Milford, MA, USA*)

INTEGRATING NANOLC/MS INTO QUANTITATIVE AND QUALITATIVE PROTEOMICS

S.A. Cohen, J.W. Finch, H. Liu, G. Gerhardt, K. Fadgen (*Milford, MA, USA*)

PROTEINS PATTERN IN HUMAN CEREBROSPINAL FLUID FROM PATIENTS AFFECTED BY PERIPHERAL NEUROPATHIES

A. Conti, P. Ricchiuto, A. Cattaneo, A. Bachi, S. Iannaccone, M. Alessio (*Milan, Italy*)

TWO-DIMENSIONAL GEL ANALYSIS OF PHOSPHOPROTEINS: IMPROVED METHODS FOR ENRICHMENT AND CHARACTERIZATION

A. Conti, G. Rossetti, C. Kilstrup-Nielsen, E. Longobardi, M. Alessio (*Milan, Busto Arsizio, Italy*)

THE UNITED STATES NATIONAL HEART LUNG AND BLOOD INSTITUTE PROTEOMICS INITIATIVE

C. E. Costello, R. Aebersold, J. VanEyck, A. S. Greene, D. R. Knapp, G. P. Nolan, H. B. Pollard, A. Kurosky, T. Kodadek, K. S. Williams

(*Boston, MA; Seattle, WA; Baltimore, MD; Milwaukee, WI; Charleston, SC; Palo Alto, CA; Washington, DC; Galveston, Dallas, TX; New Haven, CT, USA*)

DEVELOPMENT OF MS/MS INSTRUMENTATION AND DERIVATIZATION APPROACHES TO PROTEOMICS

R.J. Cotter, S. Iltchenko, R. Gundry, D. Wang (*Baltimore, MD, USA*)

FUNCTIONAL CHARACTERIZATION OF A NOVEL HUMAN NUCLEOLAR EXONUCLEASE

Y. Couté, K. Kindbeiter, R. Dieckmann, A. Scherl, J. Burgess, D.F. Hochstrasser, J.-C. Sanchez, J.-J. Diaz

(*Villeurbanne, France; Geneva, Switzerland*)

PROTEOMIC ANALYSIS OF PRIMARY CELL LINES FOR THE IDENTIFICATION OF DIFFERENTIALLY EXPRESSED PROTEINS IN RENAL CELL CARCINOMA.

R. Craven, R. Unwin, A. Stanley, S. Hanrahan, N. Totty, I. Eardley, P. Harnden, P. Selby, R. Banks (*Leeds, London, UK*)

PROTEOMIC ANALYSIS OF BOVINE TISSUES AND BIOLOGICAL FLUIDS

C. D'Ambrosio, S. Arena, L. Ledda, L. Ferrara, A. Scaloni (Naples, Italy)

EXPRESSION STUDIES OF PORCINE INTESTINAL TISSUES

M. Danielsen, T.T. Nielsen, B.B. Jensen, O.N. Jensen, P. Sangild, B. Thomsen, P. Horn, C. Bendixen, J. Hedegaard, E. Bendixen (Tjele, Frederiksberg, Odense, Denmark)

EFFICIENT ANALYSIS OF KINASE INHIBITOR SELECTIVITY AND FUNCTION BY CHEMICAL PROTEOMICS

H. Daub, D. Brehmer, S. Blencke, M. Cotten, A. Missio, G. Keri, B. Klebl, G. Müller, J. Wissing, K. Godl (München, Germany)

PREFRACTIONATION STRATEGIES PRIOR TO PROTEIN PROFILING METHODS TO ENHANCE BIOMARKER DISCOVERY

P. Davidsson, K. Björhall, T. Miliotis, B. Dahllöf (Möndal, Sweden)

ANALYSIS OF MEMBRANE PROTEINS FROM FRACTIONED RED CELL BY 2-D ELECTROPHORESIS: COMPARISON BETWEEN NORMAL AND SICKLE RED CELLS

L. De Franceschi, A. Biondani, F. Carta, P. Roncada, R. Corrocher, F. Turrini (Verona, Alghero, Milan, Torino, Italy)

IMMUNO-PROTEOMICS OF COLON CARCINOMA, A SEROLOGICAL PROTEOME ANALYSIS (SERPA)

L. De Monte, F. Viganò, S. Olivieri, F. Sanvito, C. Doglioni, M. Frasson, M.P. Protti, M. Braga, A. Bachi, M. Alessio (Milan, Italy)

IDENTIFICATION OF ASPECTS OF MOLECULAR PATHOPHYSIOLOGY IN DYSFERLINOPATHY BY MUSCLE DIFFERENTIAL PROTEIN EXPRESSION

S. De Palma, L. Morandi, R. Wait, S. Begum, C. Gelfi (Segrate, Milano, Italy; London, UK)

PROTEOMIC PROFILE OF ADULT, REGENERATING AND FETAL LIVER CELLS IN COMPARISON TO BONE MARROW STEM CELL LINES UNDERGOING DIFFERENTIATION *IN VITRO*

E.N. De Toni, S. Liebmann, S. Moosmann, S. Sagebiel, A. Buchenstaller, R. Huss, E. Zeindl-Eberhart (Munich, Germany)

PROTEOMIC CHANGES IN RAT SERUM, POLYMORPHONUCLEAR AND MONONUCLEAR LEUKOCYTES AFTER CHRONIC NICOTINE ADMINISTRATION

E. Domenici, C. Piubelli, D. Cecconi, H. Astner, F. Caldara, M. Tessari, L. Carboni, M. Hamdan, P.G. Rigetti (Verona, Italy)

IMMUNOPROTEOMICS OF *PSOROPTES CUNICULI*: DETECTION OF POTENTIAL ANTIGENS

E. Donadio, A. Felicioli, G. Montagnoli, S. Perrucci, S. Liberatori, A. Armini, V. Pallini, L. Bini, A. Podestà (Pisa, Siena, Italy)

SERUM LOW MOLECULAR WEIGHT PROTEINS IN END STAGE RENAL DISEASE PATIENTS: A PROTEOMIC APPROACH

E. Donadio, S. Fogli, A. Felicioli, L. Bini, A. Armini, S. Liberatori, V. Pallini, E. Balestrieri, M. Ardini, C. Donadio, R. Felicioli (Pisa, Siena, Italy)

ADVANCED IMAGE NORMALISATION FOR THE STATISTICAL ANALYSIS OF SETS OF GELS IN HIGH-THROUGHPUT 2D GEL ELECTROPHORESIS

A. W. Dowsey, M.J. Dunn, G.-Z. Yang (London, UK)

DIGE: A SENSITIVE 2-D TECHNIQUE TO IDENTIFY BIOMARKERS IN CARDIOVASCULAR DISEASES

A. Dupont, C. Furman, A.L. Guihot, F. Bouanou, M. Rouis, P. Amouyel, F. Pinet (Lille, France)

QUANTITATIVE FRACTIONATION AND SEPARATION OF HUMAN PLASMA BY FREE FLOW ELECTROPHORESIS AS A FIRST STEP REDUCES THE COMPLEXITY AND LEADS REPRODUCIBLE TO LOW ABUNDANT PROTEINS

C. Eckerskorn, R. Wildgruber, C. Obermaier, R. Kussian, U. Sukop, G. Weber (Martinsried, Germany)

PROTEIN IDENTIFICATION BY 1D GEL ELECTROPHORESIS COUPLED WITH OFFLINE LC-MALDI MS

R. Edward, H. Montgomery, S. Francis, S. Gaskell, K. Tanaka (Manchester, UK; Kyoto, Japan)

COMBINATORY PROTEOMIC AND GENOMIC ANALYSIS OF EMBRYONIC STEM CELL CHARACTERISTICS

S.T. Elliott, D.G. Crider, C.P. Garnham, K.R. Boheler, J.E. Van Eyk (Kinston, Ontario, Canada; Baltimore, MD, USA)

INTEGRATED SELECTIVE ENRICHMENT TARGET (ISET) - A GENERIC MICROFABRICATED SAMPLE PREPARATION DEVICE

S. Ekström, L. Wallman, T. Laurell, J. Nilsson, G. Marko-Varga (Lund, Sweden)

PROTEOMIC ANALYSIS OF GLYCOSYLPHOSPHATIDYLINOSITOL-ANCHORED PROTEINS IN HUMAN CELL RAFTS USING PHOSPHOLIPASE D

F. Elortza, S. Mohammed, L. J. Foster, U. Brodbeck, O. N. Jensen (Odense, Denmark; Bern, Switzerland; Derio, Spain)

THE HUMAN PROTEOMICS INITIATIVE: A SWISS-PROT PROTEIN KNOWLEDGEBASE PROJECT

A. Estreicher, A. Bairoch (*Geneva, Switzerland*)

PROTEOMICS IN AUTOIMMUNE PANCREATITIS: LACK OF PROTEASES AND PSP

R. Faissner, S. Wandschneider, A. Funk, L. Frulloni, C. Bassi, G. Zamboni, G. Klöppel, M. Schnölzer, M. Löhr (*Heidelberg, Kiel, Germany; Verona, Italy*)

POST-TRANSLATIONAL MODIFICATIONS IN SWISS-PROT: RECENT DEVELOPMENTS

N. Farriol-Mathis, S. Duvaud, E. Gasteiger, A. Bairoch (*Geneva, Switzerland*)

ALTERATIONS IN PROTEIN GLYCOSYLATION AS A SOURCE FOR MARKERS AND THERAPEUTIC TARGETS IN RENAL CANCER

R. Ferguson, S. Jackson, D. Jackson, P. Harnden, P. Selby, R. Banks (*Leeds, UK*)

PROTEOMIC ANALYSES OF HOST – *CANDIDA ALBICANS* INTERACTION. EFFECT OF MACROPHAGES AND PEROXYNITRITE

E. Fernández-Arenas, V. Cabezón, R. Hernández, L. Martínez-Solano, L. Monteoliva, G. Molero, C. Nombela, R. Diez-Orejas, C. Gil (*Madrid, Spain*)

PROTEOMIC INVESTIGATION OF TYROSINE NITRATION IN HUMAN GLIOMAS

G. Fiore, C. Di Cristo, G. Monti, M. Natale, A. Amoresano, A. Bocchetti, P. Pucci, A. Palumbo, F.A. Cioffi, A. Di Cosmo, M. D'Ischia (*Naples, Benevento, Italy*)

ISOELECTRIC BEADS FOR PROTEOME PRE-FRACTIONATION. I: THEORETICAL MODEL

F. Fortis, O. Brieu, P. Girot, E. Boschetti, A. Castagna, P.G. Righetti (*Cergy-Pontoise, France; Verona, Italy*)

QUANTITATIVE ANALYSIS OF THE PHOSPHOTRANSFERASE SYSTEM IN ESCHERICHIA COLI BY METABOLIC LABELING AND MALDI MASS SPECTROMETRY

G. Franke; K. Reidegeld; M. Siemann; M. Reuss; H.E. Meyer; B. Warscheid (*Bochum, Stuttgart, Germany*)

HETEROGENEITY OF HUMAN 20S PROTEASOME COMPLEXES: A QUANTITATIVE PROTEOMIC STUDY USING 2D GELS AND ICAT™ LABELING

C. Froment, S. Uttenweiler-Joseph, M.-P. Bousquet-Dubouch, J.P. Borges, C. Lacroix, C. Esmenjaud, B. Monsarrat, O. Burlet-Schiltz (*Toulouse, France*)

PREPARATION OF HUMAN SERA FOR PROTEOMIC ANALYSIS BY 2-DIMENSIONAL ELECTROPHORESIS AND 2-DIMENSIONAL LIQUID CHROMATOGRAPHY

Q. Fu, T.G McDonald, S. Sheng, P. Seo, J.E Van Eyk (*Baltimore, MD, USA; Kingston, Canada*)

COMPARISON OF PROTEIN PREFRACTIONATION METHODS FOR MDLC ANALYSIS OF THE *SYNECHOCYSTIS* sp. PCC 6803 PROTEOME

C.S. Gan, K.F. Reardon, P.C. Wright (*Sheffield, UK; Fort Collins, CO, USA*)

PROTEOME ANALYSIS OF DROUGHT STRESS TOLERANCE IN *ELYMUS ELONGATUM* HOST

A. Gazanchian, M. Hajheidari, N. A. Khosh kholgh Sima, G. Hosseini Salekdeh (*Karaj, Iran*)

ASSESSMENT OF MUSCLE PLASTICITY BY PROTEOMIC ANALYSIS

C. Gelfi, P. Cerretelli, R. Wait (*Segrate, Italy; London, UK*)

MITOCHONDRIAL PROTEINS IN RIBOFLAVIN-RESPONSIVE MYOPATHIES

E. Gianazza, D. Brambilla, L. Vergani, M. Barile, R. Wait (*Milan; Padova, Bari, Italy; London, UK*)

NEW METHOD OF REDUCING THE CONCENTRATION RANGE OF PROTEINS IN SERUM USING A COMBINATORIAL LIBRARY OF SOLID PHASE LIGANDS

L. Gheorghiu; J. Lathrop, L.Lomas, D. Hammond, E. Boschetti (*Fremont, CA, USA*)

IDENTIFICATION AND STRUCTURE CHARACTERIZATION OF DISEASE- ASSOCIATED MARKER PROTEINS USING MALDI QIT TOF MS^N IN CLINICAL PROTEOME RESEARCH OF BODY FLUIDS FROM PATIENTS SUFFERING FROM RHEUMATOID ARTHRITIS

M. O. Glocker, C. Koy, P. Serrano, M. Kreuzer, S. Möller, B. Ringel, S. Mikkat, R. Martin, S. Drynda, J. Kekow, H.-J. Thiesen (*Rostock, Vogelsang, Germany; Manchester, UK*)

PHOSPHOPROTEOMICS OF ENDOTHELIN RECEPTORS PATHWAYS

J. Godovac-Zimmermann (*London, UK*)

IDENTIFICATION OF ANTIBODY TO MILK-FAT-GLOBULE MEMBRANE PROTEINS IN SERA OF TYPE 1 DIABETES MELLITUS POSITIVE CHILDREN

M. Goldfarb (*Portland, ME, USA*)

PROTEOMIC PROFILING OF ABDOMINAL SKELETAL MUSCLE TO STUDY PATHOLOGIES ASSOCIATED TO INSULIN RESISTANCE

M. González, E.M. Fernández, M. Mora, M. Cortón, B. Peral (Madrid, Spain)

METHODS TO CIRCUMVENT LOW DUTY CYCLE AND POOR PEAK CAPACITY WHEN ANALYZING COMPLEX PEPTIDE MIXTURES VIA LC-MS-BASED PROTEOMIC TECHNOLOGIES

D.R. Goodlett, C. Doneanu, G. K Taylor, B. Pratt, E. Nilsson, K. Nugent, Y. Wang, H. Wang (Seattle, WA, USA)

ANALYSIS OF BIOMARKERS FOR CERVICAL CANCER

N.I. Govorukhina, S. Roelfsema, A.G.J. van der Zee, H.W.A de Bruijn, E.R. Verheij, J. van der Greef, T.M. Luider, R. Bischoff (Groningen, Zeist, Rotterdam, The Netherlands)

ANALYSIS OF TEAR FLUID PROTEINS IN DRY-EYE BY PROTEIN-CHIPS: A NEW NON-INVASIVE APPROACH FOR BIOMARKER DETECTION

F.H. Grus, A. Wirthlin, N. Pfeiffer (Baar, Switzerland; Mainz, Germany)

DIAGNOSIS BY COMPLEX AUTOANTIBODY-REPERTOIRES AND PROTEIN PROFILES IN GLAUCOMA USING BIO-CHIPS

F.H. Grus, S. Joachim, A. Wirthlin, N. Pfeiffer (Mainz, Germany. Switzerland)

MULTIFUNCTIONAL FRACTIONATION OF PROTEOMES COMBINED WITH SURFACE ENHANCED LASER DESORPTION IONIZATION MASS SPECTROMETRY ANALYSIS

L. Guerrier, L. Lomas, E. Boschetti (Fremont, CA, USA)

CHARACTERIZATION OF THE ALBUMINOME BY MALDI-TOF MS AND MS/MS

R. Gundry, Q. Fu, P. Seo, J. VanEyck, R. Cotter (Baltimore, MD, USA)

OPTIMIZATION OF NANOFLOW ELECTROSPRAY WITH A PARTICLE DISCRIMINATOR INTERFACE ON A HYBRID QUADRUPOLE TIME OF FLIGHT MASS SPECTROMETER

X. Guo, C. L. Hunter, B.B. Schneider, L.M. Fell (Concord, Canada; Foster City, CA, USA)

OVEREXPRESSION OF PSORIASIS ASSOCIATED FATTY ACID BINDING PROTEIN (PA-FABP) USING ADENOVIRUS IN HUMAN DERMAL MICROVASCULAR ENDOTHELIAL CELLS

M.K. Ha, K.Y. Chung, Dongsik Bang, Y.K. Park, K.H. Lee (Seoul, South Korea)

FUNCTIONAL IDENTIFICATION OF NOVEL ACTIVITIES- MINING PLASMA FOR NEW THERAPEUTICS

D.J. Hammond, S. Soukharev, J. Lathrop (Rockville, MD, USA)

QUANTITATIVE PROTEIN SEQUENCE TAG (qPST) - A GEL FREE COMPLEXITY REDUCING APPROACH FOR DIFFERENTIAL QUANTITATIVE ANALYSIS OF COMPLEX PROTEOMES

C. Hamon, C. Baumann, H. Legner, P. Schmid, K. Kuhn, S. Steiner, J. Schäfer, J. Schwarz (Germany)

PROTEINEER-LC: INTERFACING LC TO ESI- AND MALDI-MS/MS ANALYSIS TOWARDS HIGH-THROUGHPUT AND HIGH CONTENT PROTEOMICS

S. Hahner, M. Lubeck, W. Jabs, A. Resemann, M. Klinski, D. Suckau (Bremen, Germany)

APPLICATION OF CHIP-BASED, AUTOMATED NANO-ELECTROSPRAY MASS SPECTROMETRY FOR PROTEOMIC PATTERN RECOGNITION

Z. Hao, K. Howe, C. K. Van Pelt, S. Zhang, M. Allen, J. Niebel, W. S. Wiggins, B. A. Hitt, T. A. Coleman (Ithaca, NY; Bethesda, MD, USA. Norwich, UK; Wachenheim, Germany)

OFF-GEL™ ELECTROPHORESIS: A VERSATILE AND POWERFUL TOOL FOR PROTEIN AND PEPTIDE FRACTIONATION IN PROTEOMICS

M. Heller, P. Michel, P. Morier, C. Vollet, D. Crettaz, J.-D. Tissot, F. Reymond, J. Rossier (Monthey, Bern, Lausanne, Switzerland)

AMINO ACID SEQUENCING OF SULFONATED PEPTIDES USING PSD IN MALDI TOF/TOF – QUICK AND STRAIGHTFORWARD, ALSO FOR PTM'S

U. Hellman (Uppsala, Sweden)

PANORAMA AB MICROARRAY - CELL SIGNALING: A VALUABLE TOOL FOR STUDYING THE DIFFERENTIAL EXPRESSION OF PROTEINS IN CELLS

K. Herick, E. Kopf, D. Shnitzer, D. Zharhary (Rehovot, Israel; Taufkirchen, Germany)

POPITAM SQUINTS TO BETTER IDENTIFY MS/MS SPECTRA OF MODIFIED PEPTIDES

P. Hernandez, R. Gras, R.D. Appel (Geneva, Switzerland)

ANALYSIS OF CULTURE FILTRATE PROTEINS OF *FRANCISELLA TULARENSIS*

L. Hernychova, K. Slosrova, J. Lenco, M. Hubalek, I. Klimtova, M. Brychta, J. Stulik, A. Macela, C.V. Mujer, V.G. DelVecchio (*Hradec Kralove, Czech Republic; Mayfield, PA, USA*)

EFFECTS OF THE BACTERIOPHAGE ϕ CPAR39 ON *CHLAMYDIA PNEUMONIAE* INVESTIGATED BY IMMUNOFLUORESCENCE AND TWO-DIMENSIONAL GEL ELECTROPHORESIS

K. Hoestgaard-Jensen, M. Petersen, B. Vandahl, G. Christiansen and S. Birkelund (*Aarhus, Denmark*)

PROFILING THE PHOSPHOPROTEOME: INFERRING BIOLOGICAL MEANING FROM ANALYSES OF PHYSIOLOGICAL PHOSPHORYLATION SITES

P. Hornbeck, J. Kornhauser, E. Skrzypek, B. Zhang, J. Rush, M. Comb, R. Polakiewicz, O. Shaham, M. Yaffe (*Beverly, MA, USA*)

PROTEOME STUDY ON MUSCLE TISSUE FROM FRIESIAN BULL CALVES DURING PUBERTY

M. Houbak, M. Therkildsen (*Tjele, Denmark*)

IDENTIFICATION OF NEURONAL ION CHANNEL AND RECEPTOR PHOSPHORYLATION SITES BY OFFLINE CAPILLARY HPLC-MALDI-TOF/TOF AND ONLINE NANOLC/MS/MS

L. Huang, Z. Horvath, D. Zhou, D. Maltby, A. L. Burlingame, E.C. Cooper (*Irvine, CA; Philadelphia, PA; San Francisco, CA, USA*)

COMPARATIVE PROTEOME ANALYSIS OF CELLULAR PROTEINS EXTRACTED FROM HIGHLY VIRULENT *FRANCISELLA TULARENSIS* SUBSP. *TULARENSIS* AND LESS VIRULENT *FRANCISELLA TULARENSIS* SUBSP. *HOLARCTICA* AND SUBSP. *Mediaasiatica*

M. Hubálek, J. Stulik (*Hradec Králové, Czech Republic*)

USING STABLE ISOTOPE TAGS AND A HYBRID QUADRUPOLE – LINEAR ION TRAP MASS SPECTROMETER FOR QUANTIFYING PROTEINS

C. Hunter, S. Webb, D. DuPont, S. Pillai, N. Kitteringham, R. Jenkins, S. Pennington (*Foster City, CA; Framingham, MA, USA; Liverpool, UK; Dublin, Ireland*)

PROTEOMICS-BASED ANALYSIS OF ALTERATIONS IN MOUSE PLASMA PROTEIN PROFILES INDUCED BY PROSTATE CANCER XENOGRAFT TUMOURS

D.H. Jackson, J. Shaw, G. Smith, J. Nickson, S. Rayner, R. Rowlinson, S. Jones, I. Wilson, R. Tonge (*Alderley Park, UK*)

PROTEOME AND FUNCTIONAL ANALYSIS OF BACILLUS MEMBRANE-BOUND PROTEINS

M. Jansson, M. Möller, L. Hederstedt, P. James (*Lund, Sweden*)

COMPLEX INFORMATION IS EXTRACTED FROM TWO-DIMENSIONAL ELECTROPHORESIS GELS BY MULTIVARIATE DATA ANALYSIS

F. Jessen (*Lyngby, Denmark*)

A COMPARATIVE PROTEOMIC STRATEGY FOR SUBCELLULAR PROTEOME RESEARCH: ISOTOPE-CODED AFFINITY TAG APPROACH TO ASCERTAIN RAT LIVER MITOCHONDRIAL PROTEINS AND INDICATION OF MITOCHONDRIAL LOCALIZATION FOR CATALASE AND AP ENDONUCLEASE 1

X.-S. Jiang, J. Dai, Q.-H. Sheng, L. Zhang, Q.-C. Xia, J.-R. Wu, R. Zeng (*Shanghai, China*)

PROTEOMICS OF THE INJURED RAT SCIATIC NERVE REVEALS PROTEIN EXPRESSION DYNAMICS DURING REGENERATION

C.R. Jiménez, F.J. Stam, K. Wan Li, Y. Gouwenberg, M.P. Hornshaw, F. De Winter, J. Verhaagen, A.B. Smit (*Amsterdam, The Netherlands; Warrington, UK*)

A PROTEOMIC APPROACH TO CHARACTERIZE AND IDENTIFY DIFFERENT HOLM OAK (*QUERCUS ILEX* L.) SPANISH PROVENANCES

I. Jorge, R. M. Navarro, C. Lenz, D. Ariza, C. Porras, J. Jorrín (*Córdoba, Sevilla, Spain; Darmstadt, Germany*)

A PROTEOMIC APPROACH TO IDENTIFY CLOTTING FACTORS IN *DROSOPHILA MELANOGASTER*

C. Karlsson, A. M. Korayem, C. Scherfer, O. Loseva, M.S. Dushay, U. Theopold (*Stockholm, Huddinge, Sweden; Assiut, Egypt*)

IDENTIFICATION OF PROTEIN MARKERS FOR BRAIN CANCER USING EXPRESSION PROTEOMICS

A.A. Khalil, O. Persson, L. Salford, P. James (*Alexandria, Egypt; Lund, Sweden*)

DEVELOPMENT OF ULTRA-HIGH-SENSITIVITY MPD SCANNING OF PROTEIN ABUNDANCES

O. Kleiner, A. Drukier, J. Godovac-Zimmermann (*London, UK; Herndon, VA, USA*)

PROTEOMIC ANALYSIS OF MEMBRANE PROTEINS OF *FRANCISELLA TULARENSIS* LVS

I. Klimtova, J. Stulik, J. Zechovska (*Hradec Kralove, Czech Republic*)

MICROFLUIDIC DEVICES FOR PROTEOMIC ANALYSIS

D.R. Knapp, J. Liu, K.W. Ro, R. Nayak and M. Busman (*Charleston, SC, USA*)

MAPPING THE *THERMOPLASMA* PROTEOME – STRUCTURAL PROTEOMICS STUDIES USING FREE-FLOW ELECTROPHORESIS AND CRYO-ELECTRON TOMOGRAPHY

C. Kofler, S. Nickell, I. Nagy, M. Boicu and W. Baumeister (*Martinsried, Germany*)

ESTABLISHED PLATFORM TO ANALYZE FUNCTIONS OF KIAA PROTEINS: GENERATION OF ANTIBODY ARRAY USING SPR TECHNOLOGY

H. Koga, K. Shimada, M. Nagano, Y. Hara, K. Usui-Aoki, K. Imai, S. Yuasa, H. Kohga, M. Kawai, S. Inamoto, J. Magae, N. Okazaki, T. Nagase, O. Ohara (*Chiba, Tokyo, Kanagawa, Japan*)

THE COMPLEX RELATIONSHIP BETWEEN β -AMYLOID₄₂ AND AMYLOID PRECURSOR PROTEIN C-TERMINAL FRAGMENTS IN THE BRAIN, CSF, AND LYMPHOCYTES OF PATIENTS WITH ALZHEIMER'S DISEASE

V. Kostanjevecki, H. Decraemer, R. Degrieck, L. Vandecasteele, V. De Brabandere, F. Bosman, N. Sergeant, K. Blennow, A. Delacourte, H. Vanderstichele, E. Vanmechelen (*Gent, Belgium; Lille, France; Mölndal, Sweden*)

PROTEOMIC STUDIES SUPPORT USE OF MULTIPRODUCT IMMUNOASSAYS TO MEASURE HOST-CELL PROTEIN IMPURITIES

D. Krawitz, W. Forrest, T. Moreno, K. Champion (*San Francisco, CA, USA*)

SIMULTANEOUS IDENTIFICATION AND VERIFICATION OF *Bacillus anthracis*

T. Krishnamurthy, J. Hewel, N.J. Bonzagni, J. Dabbs, R.L. Bull, J. Yates, III (*Aberdeen Proving Ground, MD; La Jolla, CA; Silverspring, MD, USA*)

THE PROTEIN SEQUENCE TAG (PST) TECHNOLOGY: A GEL-FREE PROTEOMIC APPROACH FOR BROAD APPLICATION

K. Kuhn, M. Sonntag, T. Prinz, J. Korder, J. Schäfer, C. Baumann, J. Müller, C. Hamon (*Frankfurt am Main, Germany*)

THE ROLE OF MALDI MASS SPECTROMETRY IN CLINICAL PROTEOMICS

S. Kuzdzal, M. Lopez, D. Bennett, A. Mikulskis, E. Golenko (*Boston, MA; Chicago, IL, USA*)

PROTEOMIC ANALYSIS OF A BACTERIAL COMMUNITY RESPONSE TO CADMIUM EXPOSURE

C. Lacerda, K.F. Reardon (*Fort Collins, CO, USA*)

PROTEOMIC ANALYSIS OF URINE FROM PATIENTS WITH CALCIUM OXALATE KIDNEY STONES

E.D. Lederer, A. Devillez, R.S. Tyagi, J.A. Nesbitt, J.B. Klein (*Louisville, KY, USA*)

COMPARATIVE PROTEOMICS OF GASTROINTESTINAL AND GUILLAIN-BARRÉ SYNDROME ISOLATES OF *Campylobacter jejuni*

A.C.L. Len, S.P. Djordjevic, S.J. Cordwell (*Sydney, Australia*)

IMPROVED REHYDRATION OF IMMOBILIZED pH GRADIENT (IPG) GEL STRIPS FOR TWO-DIMENSIONAL GEL-BASED PROTEOMIC ANALYSES

N.K. Leimgruber, K.A. Botwin, R.M. Leimgruber (*St. Louis, MO, USA*)

PROTEOME ANALYSIS OF OXIDATIVE STRESS RESPONSE IN *FRANCISELLA TULARENSIS* LVS AND ITS MUTANT Δ iglC1+2

J. Lenčo, I. Klimtová, M. Brychta, J. Stulík (*Hradec Králové, Czech Republic*)

IDENTIFICATION OF POTENTIAL CEREBROSPINAL FLUID AND PLASMATIC MARKERS FOR THE DIAGNOSIS OF TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES

P. Lescuyer, J.A. Burgess, L. Allard, N. Walter, D.F. Hochstrasser, J.-C. Sanchez (*Geneva, Switzerland*)

EXPLORING THE USE OF CICAT FOR THE DISCOVERY OF BIOMARKERS IN PLASMA

K. Leung, P. Lescuyer, L. Allard, J.-C. Sanchez, H. Byers, J. Campbell, E. McGregor, M. Ward (*London, UK; Genève, Switzerland*)

DIFFERENTIAL PROTEIN EXPRESSION OF NORMAL ANATOMICAL ZONES OF THE PROSTATE

H. Lexander, B. Franzén, G. Auer, M. Hellstrom, L. Egevad (*Södertälje, Stockholm, Sweden*)

PROTEOMIC ANALYSIS OF HEPATOCELLULAR CARCINOMA: IDENTIFICATION OF POTENTIAL TUMOR MARKERS

C. Li, Y.-X. Tan, H. Zhou, S.-J. Ding, S.-J. Li, D.-J. Ma, X.-B. Man, Y. Hong, Q.-C. Xia, J.-R. Wu, H.-Y. Wang, R. Zeng (*Shanghai, China*)

THE IRON-REGULATED PROTEOME AND TRANSCRIPTOME OF *Neisseria meningitidis*

I. Linhartova, M. Basler, P. Halada, J. Novotna, J. Vohradsky, S. Bezouskova, R. Osicka, J. Weiser, P. Sebo (*Prague, Czech Republic*)

ANALYSIS OF MEMBRANE PROTEINS IN MOUSE BRAIN – THE POWER OF MULTI- DIMENSIONAL SEPARATION

C. Lohaus, O. Schmidt, H. E. Meyer, K. Marcus (Bochum, Germany)

PROTEOMICS IN NUTRITIONAL HEALTH: BIOMARKERS FOR GUT STRESS

L. V. Lopes, G. E. Bergonzelli, M. Affolter, L. Marvin-Guy, L. B. Fay, M. Kussmann (Lausanne, Switzerland)

SCORE, DATABASE SIZE AND DELTA SCORE. A STATISTICAL MODEL FOR LARGE-SCALE PEPTIDE IDENTIFICATION IN DATABASES FROM TANDEM MASS SPECTRA USING SEQUEST

D. López, S. Martínez-Bartolomé, M. Villar, A. Marina, F. Martín-Maroto, J. Vázquez (Spain; USA)

ECS, AN ABC TRANSPORTER, AFFECTS PROTEIN SECRETION IN *BACILLUS SUBTILIS*

T. Lundén, E. Lindberg, M. Sarvas, V.P. Kontinen (Helsinki Finland)

PROTEOME ANALYSIS OF REGULATORY T CELLS – A NEW MARKER PROTEIN AND BASIS FOR INNOVATIVE IMMUNOTHERAPEUTICAL APPROACHES

P. Lutter, H. Jonuleit, E. Schmitt, T. Bopp, J. Kubach, C. Richter, C. Müller, S. Bailey, M. Stassen, H.E. Meyer, C. Huels, P. Weingarten (Dortmund, Mainz, Bochum, Germany)

PROTEOME MAPS OF HUMAN RENAL CORTEX AND ITS MITOCHONDRIA ENRICHED SUBCELLULAR FRACTION

F. Magni, C. Sarto, A. Di Fonzo, C. Valsecchi, G. Doro, M. Pitto, S. Ferrero, S. Casellato, M. Galli Kienle, P. Mocarelli (Monza, Desio, Milano, Italy)

A PROTEOMIC APPROACH TO DISSECT SIGNALLING PATHWAYS IN *ARABIDOPSIS THALIANA*

A.M. Maldonado, M. Carrascal, J. Abián, P. Lara, J. Jorrín (Córdoba, Barcelona, Madrid, Spain)

PROTEOMIC PROFILING OF FACIAL DEVELOPMENT IN CHICK EMBRYOS

J. E. Mangum, P. G. Farlie, M. J. Hubbard (Melbourne, Parkville, Australia)

AN INTRODUCTION TO SCIENTIFIC ANALYSIS OF PROTEIN EXPRESSION DATA WITH SPECIAL EMPHASIS ON DATA QUALITY ASSURANCE

M. Markmann, M. Flesch, P. Haberl (Martinsried, Germany)

SIMULTANEOUS QUALITATIVE AND QUANTITATIVE ANALYSIS OF WHOLE PROTEOMES AND COMPLEX PROTEIN MIXTURES USING ACCURATE MASS AND CHROMATOGRAPHIC INFORMATION

R. Martin, S. Geromanos, J. Silva, K. Richardson, K. Neeson (Beverly, MA; Milford, MA, USA. Manchester, UK)

IDENTIFICATION BY A DIFFERENTIAL PROTEOMIC APPROACH OF HSP27 AS A POTENTIAL MARKER OF ATHEROSCLEROSIS

J.L. Martín-Ventura, M.C. Duran, L.M. Blanco-Colio, O. Meilhac, A. Leclercq, J.-B. Michel, O.N. Jensen, M.G. Barderas, V.M. Dardé, J. Tuñón, J. Egido, F. Vivanco (Madrid, Spain; Paris, France; Odense, Denmark)

IN-DEPTH PROTEOME ANALYSIS OF VIRULENT AND ATTENUATED MYCOBACTERIAL STRAINS

J. Mattow, U.E. Schaible, F. Siejak, K. Hagens, M. Hecker, D.R. Sherman, P.R. Jungblut, S.H.E. Kaufmann (Berlin, Greifswald, Germany; Seattle, WA, USA)

SELDI-TOF APPLICATION IN CYSTIC FIBROSIS THERAPEUTIC TARGET DISCOVERY

G. MacGregor, M. Gardiano, M. Imrie, D.J. Porteous, A.C. Boyd, D. Penque (Edinburgh, UK; Lisboa, Porto, Portugal)

COMPARED FUNCTIONAL PROTEOMIC ANALYSIS OF TWO BIOGENIC AMINE PRODUCING *LACTOBACILLUS SP.* STRAINS

R. Mazzoli, C. Lamberti, C. Barelo, B. Boccaccino, L. Gardano, M.G. Giuffrida, E. Pessione, C. Giunta (Torino, Colliero Giosca, Asti, Italy)

PROTEOMICS AND TRANSGENIC ANIMAL MODELS OF ALZHEIMER'S DISEASE

E. M^cGregor, V. Patel, J. Westbrook, N. Leeds, H. Byers, J. Campbell, K. Leung, C. Fitzer-Attas, M. Ward (London, UK; Jerusalem, Israel)

NON-DENATURING TWO-DIMENSIONAL ELECTROPHORESIS FOR THE DETECTION OF INCOMPLETELY SYNTHESIZED PROTEINS

I. Miller, M. Teinfalt, G. Cohen, H. Gisslinger, M. Gemeiner (Vienna, Austria)

QUANTITATIVE PROTEOMIC STUDIES FROM CANCER PATIENT SERUM SAMPLES

M. Minkoff, H.Zhang, S. Bhardwaj, S Ye, S. Zobbi, K.Waddell (Framingham, MA; Seattle, WA, USA)

ROLES FOR THE FISHING FOR PARTNERS SYSTEM IN EXPLORATION OF *S.CEREVISIAE* PROTEIN INTERACTOME

A. Modesti, M. Marchetta, A. Carpentieri, A. Amoresano, T. Gamberi, M. Biagini, F. Magherini, G. Raugei, P. Pucci, G. Camici, G. Ramponi (Firenze, Napoli, Italy)

GLaD: A MASS SPECTROMETRY BASED LYSINE GUANIDINO LABELING DERIVATIZATION FOR COMPARATIVE PROTEOMICS

H. Montgomery, F. L. Brancia (*Manchester, UK*)

PEPTIDE MASS MAPPING – QUALITATIVE AND QUANTITATIVE GLOBAL PROTEOMIC STUDIES

A. Moseley, K. Blackburn, D. Crowther, S. Geromanos, K. Richardson, D. Schlatter, J. Silva, D. Wall (*Milford, MA, USA*)

THE MAKE2D-DB II TOOL: BUILDING A LARGE FEDERATED 2-DE GEL DATABASES NETWORK

K. Mostaguir, C. Hoogland, R.D. Appel (*Geneva, Switzerland*)

MULTI-SOFTWARE BASED VALIDATION OF PROTEIN IDENTIFICATION AND QUANTIFICATION IN ICAT STUDIES

R. Moulder, T.A. Nyman, J-J Filén, J. Salmi, M. Katajamaa, T. Aittokallio, M. Oresic, R. Lahesmaa, O. Nevalainen (*Turku, Espoo, Finland*)

IDENTIFICATION AND CHARACTERIZATION OF PROTEIN-PROTEIN INTERACTIONS BETWEEN INTEGRAL MEMBRANE PROTEINS IN YEAST

N. Möckli, K. Rutschmann, S. Reinhard, D. Auerbach (*Zurich, Switzerland*)

APPLICATIONS FOR THE MOLECULAR SCANNER TECHNIQUE

T. Nadler, B. Wagenfeld, R. Lotti, S. Guertin, S. Booth, L. Hall, I. Papayannopoulos, K. Parker (*Framingham, MA, USA*)

MEMBRANE ADSORBERS IN MICRO SPIN COLUMNS FOR SAMPLE PREPARATION PRIOR TO 2D-PAGE AND MALDI ANALYSIS

M. Naldrett, A. Kocourek, C. Naumann, O. Reif, R. Zeidler (*Norwich, UK; Hannover, Göttingen, Germany*)

FUNCTIONAL PROTEOMICS OF THE HUMAN MITOTIC SPINDLE

M. Nousiainen, G. Sauer, H.H. Silljé, A. Ries, A. Hanisch, E.A. Nigg, R. Körner (*Martinsried, Germany*)

CHARACTERIZATION OF LIPID RAFT PROTEOME OF MURINE NEUROBLASTOMA N2a CELLS

S. Nonnis, A. Negri, S. Ronchi, A. Prinetti, L. Pagliato, F. Taverna, G. Tedeschi (*Milano, Segrate, Italy*)

HIGH PERFORMANCE IN-GEL DIGESTION OF PROTEINS: SENSITIVE AND ROBUST SAMPLE PREPARATION FOR MALDI-TOF MS AND LC MS USING A NOVEL TYPE OF MICROPLATES

M. Nissum, U. Knecht, J. P. DeGnore, W. S. Lane (*Maennedorf, Switzerland; Cambridge, MA, USA*)

LOSS OF EXPRESSION OF ADIPOCYTE-TYPE FATTY ACID BINDING PROTEIN (A-FABP) IS ASSOCIATED WITH PROGRESSION OF HUMAN BLADDER TRANSITIONAL CELL CARCINOMAS

G. Ohlsson, J. Moreira, J.E. Celis (*Copenhagen, Denmark*)

TRACKING SERUM PROTEIN ISOFORMS AS BIOMARKERS FOR OVARIAN CANCER

K. Oliva, N. Ahmed, G. Barker, M. Quinn, S. Reeve, I. Smith, G. Rice (*Carlton, Victoria, Australia*)

PROTEOMIC ANALYSIS OF GPI-ANCHORED PROTEINS OF *S. CEREVISIAE* AND CHARACTERISATION OF THE PORCINE MEMBRANE DIPEPTIDASE GPI-ANCHOR

M.J. Omaetxebarria, F. Elortza, P. Häggglund, N.M. Hooper, T. Holm, S. Mohammed, O.N. Jensen (*Odense M, Denmark; Derio, Spain; Leeds, UK*)

DETECTION OF Se-PROTEINS IN HUMAN BLOOD SERUM BY USING A MULTIAFFINITY REMOVAL COLUMN (MARC)

Ó. Palacios, D. Schaumlöffel, J. Ruiz Encinar, R. Grimm, R. Lobinski (*Pau, France; Santa Clara, CA, USA*)

QUANTITATIVE ANALYSIS OF PROTEIN INTERACTION USING A NOVEL, LABEL FREE SPOT MATRIX SYSTEM

M. Palmer (*Bedford, MA, USA*)

IDENTIFICATION AND CHARACTERISATION OF MOUSE SPERM SURFACE ANTIGENS BY HUMAN ANTISPERM ANTIBODIES (ASA) FROM INFERTILE PATIENTS

A. Paradowska, C. Bohring, W. Krause (*Marburg, Germany*)

PROTEOME ANALYSIS OF NEUROLEPTIC ADMINISTRATION IN MK-801-TREATED RATS

L. Paulson, P. Martin, E. Ljung, K. Blennow, G. Karlsson, Lena Brive, P. Davidsson (*Mölnadal, Göteborg, Sweden*)

DELVING DEEPER INTO THE PROTEOME: STRATEGIES FOR DISCOVERY SCREENING AND CHARACTERIZATION OF COMPLEX BIOLOGICAL PROTEIN SAMPLES

A. Paulus, S. Freeby, K. Academia, A. Posch (*Hercules, CA, USA*)

DIGGING DEEPER INTO THE SERUM PROTEOME BY USING ISOELECTRIC FOCUSING AND MASS BASED FRACTIONATION

A. Paulus, S. Freeby, K. Academia, A. Posch (*Hercules, CA, USA*)

PREPARATIVE IEF AS THIRD DIMENSION TO 2D GEL SEPARATIONS

A. Paulus, K. Academia, S. Freeby, A. Posch, G. Armin, Y. Kowalewski (*Hercules, CA, USA*)

CELL SURFACE MEMBRANE AND PHOSPHOPROTEINS IN INFLAMMATORY SIGNALLING: A PROTEOMIC APPROACH

M. Peirce, S. Begum, A. Cope, R. Wait (*London, UK*)

PROTEOMIC ANALYSIS OF THE ANTERIOR CINGULATE CORTEX IN SCHIZOPHRENIA, BIPOLAR DISORDER AND MAJOR DEPRESSIVE DISORDER: EVIDENCE FOR METABOLIC DISTURBANCES

K. Pennington, C. Beasley, R. Wait, M.J. Dunn, D. Cotter (*London, Dublin, London, UK*)

PROTEOMIC ANALYSIS OF THE DORSO-LATERAL PREFRONTAL CORTEX IN SCHIZOPHRENIA AND BIPOLAR DISORDER

K. Pennington, C. Beasley, L. Hudson, M.J. Dunn, D. Cotter (*London, Dublin, UK*)

GROWING THE LACTADHERIN FAMILY: IDENTIFICATION OF LACTADHERIN FROM HORSE MILK

L. Perono Garoffo, D. Fortunato, C. Barello, E. Bertino, A. Coscia, L. Di Leo, M. Cavaletto, M.G. Giuffrida (*Colleretto Giacosa, Torino, Alessandria, Italy*)

POST-TRANSLATIONAL MODIFICATIONS AND SEQUENCE IRREGULARITIES: AN APPLICATION FOR FINNIGAN LINEAR ION TRAP/FT-ICR MASS SPECTROMETER

S.M. Peterman, C.P. Dufresne, S. Horning, H. Pfaff, T. Ueckert, M. Scigelova (*San Jose, CA, USA; Bremen, Germany*)

INTERFERON-GAMMA REGULATED *Chlamydia pneumoniae* PROTEINS INVESTIGATED BY TWO-DIMENSIONAL GEL ELECTROPHORESIS AND IMMUNOFLUORESCENCE

M. Petersen, K. Hoestgaard-Jensen, B. Vandahl, G. Christiansen, S. Birkelund (*Aarhus, Denmark*)

CHARACTERIZATION OF HAKE PARVALBUMINS BY PROTEOMIC TECHNIQUES

C. Piñeiro, M. Carrera, B. Cañas, D. López, A.J. García, L. Barros, J. Vázquez-Cobos, J.M. Gallardo (*Vigo, Madrid, Spain*)

IDENTIFICATION OF THE PIECES THAT MAKE UP THE PUZZLE OF THE *Candida albicans* IMMUNOPROTEOME: NEW CHALLENGES IN THEIR ASSAMBLING FOR THE DIAGNOSIS OF SYSTEMIC CANDIDIASIS

A. Pitarch, J. Abian, M. Carrascal, M. Sánchez, C. Nombela, C. Gil (*Madrid, Barcelona, Salamanca, Spain*)

TOWARDS AUTOMATIC DETECTION OF POSTTRANSLATIONAL MODIFICATIONS USING TANDEM MASS SPECTROMETRY

F. Potthast, J. Ocenasek², R. Munton, D. Rutishauser, M. Livingstone-Zatchej, M. Pelikan, P. Gehrig, R. Schlapbach (*Zürich, Switzerland; St. Louis, USA*)

THE APPLICATION OF A SOFTWARE TOOL FOR THE TWO-DIMENSIONAL REPRESENTATION OF LC-MS DATA TO THE ANALYSIS OF POST-TRANSLATIONAL MODIFICATIONS AND THE COMPARISON OF COMPLEX PEPTIDE MIXTURES

A.Potts, D. Walther, S. Catherinet, W. Bienvenut, R. Appel, M. Quadroni (*Epalinges, Geneva, Switzerland*)

STRATEGY FOR FAST, HIGH CONFIDENCE PROTEIN IDENTIFICATION BY MALDI-MS/MS

M. Prieto, V. Kovtoun, M. Scigelova (*San Jose, CA, USA*)

ANALYSIS OF LOW ABUNDANT MEMBRANE PROTEINS USING THE GEL-FREE PROTEIN SEQUENCE TAG (PST) TECHNOLOGY

T. Prinz, J. Müller, K. Kuhn, J. Korder, M. Sonnentag, J. Schäfer, C. Baumann, C. Hamon (*Frankfurt am Main, Germany*)

COMPARISON OF PROTEIN PROFILES OF DIFFERENT CHO CELL LINES

C. Przewalla, M. Chang, R. Kunert, F. Hesse, J. Grillari, N. Borth, H. Katinger (*Vienna, Austria*)

PHOSPHORYLATION PATTERNS IN RAT CORTICAL NEURONS

R. Raggiaschi, C. Lorenzetto, S. Gotta, G.C. Terstappen (*Siena, Italy*)

MAGNETIC NANOPARTICLES AS PLATFORM TECHNOLOGY FOR CLINICAL MARKER DISCOVERY AND MARKER IDENTIFICATION BY MASS SPECTROMETRY

U. Rapp, M. Kostrzewa, D. Suckau (*Bremen, Leipzig, Germany*)

3M™ EMPORE™ AFFINITY AZ 96-WELL PLATE FOR HIGH THROUGHPUT PROTEIN PURIFICATION

J.K. Rasmussen, M. Raghavachari, L.C. Haddad, B.C. Swenson, C.A. Bothof, S.L. Patil, D. Gilsoul (*St. Paul, MN, USA, Germany*)

PROTEOMIC STUDIES OF ALKALINE PROTEINS FROM POTATO TUBER

A. Ravnsbæk, G. Bauw, K.G. Welinder (*Aalborg, Denmark*)

FOOD PROTEOMICS: USE OF MASS SPECTROMETRY FOR QUALITY EVALUATION AND VALIDATION OF MILK AND MILK DERIVATIVES AND FOR SEAFOOD AUTHENTICATION

P. Riccio, R. Rossano (*Potenza, Italy*)

A PROTEOMIC APPROACH TO IDENTIFY AND VALIDATE TARGETS OF NOVEL ANTI-INFECTIVE THERAPEUTICS

K. Riedel, C. Arevalo-Ferro, M. Köthe, A. Ammendola, A. Gotschlich, W. Saeb, B. Kramer, M. Hentzer, M. Givskov, G. Reil, A. Görg, L. Eberl (*Zürich, Switzerland; Munich, Germany; Denmark*)

DIFFERENTIAL PROTEIN EXPRESSION IN MUSCLE MITOCHONDRIA OF RATS EXPOSED TO CHRONIC AND INTERMITTENT HYPOXIA

M. Ripamonti, M. Samaja, R. Wait, C. Gelfi (*Milan, Italy; London, UK*)

LACK OF STAT 5A REGULATION, LINKED TO BOTH IGF-1 AND β -CASEIN UP-REGULATION IN BREAST CANCER USING PROTEOMIC ANALYSIS

K. Roberts, K. Bhatia, P. Stanton, R. Lord (*Hobart, Tas, Australia*)

MULTIPLE PROTEOME ANALYSIS OF SPORADIC COLON CANCER

U. J. Roblick, A. Unger, D. Hirschberg, J. Habermann, J. Lahmann, K. Redlin, K. Zimmermann, S. Becker, B. Franzén, T. Ried, T. Bergman, H. Jörnvall, G. Auer (*Stockholm, Södertälje, Uppsala, Sweden; Lübeck, Germany; Bethesda, MD, USA*)

2 DIMENSIONAL ELECTROPHORESIS GEL REGISTRATION USING POINT MATCHING AND LOCAL INTENSITY-BASED REFINEMENT

M. Rogers, J. Graham, R.P. Tonge (*Manchester, UK*)

IMMUNOLOGICAL DISSECTION OF THE HUMAN URINARY PROTEOME

P. Roncada, E. Cesana, S. Beltrami, F. Carta, P. Milani, R. Fortin, F. Gaboardi, M.P. Rastaldi, M.T. Barone, G.F. Greppi, F. Turrini, A. Clivio (*Milano, Alghero, Torino, Italy*)

NEW MATRICES TO IMPROVE SEPARATION OF HIGH MOLECULAR WEIGHT PROTEINS IN TWO DIMENSIONAL ELECTROPHORESIS

P. Roncada, M. Cretich, F. Carta, R. Fortin, L. De Franceschi, G.F. Greppi, F. Turrini, M. Chiari (*Milano, Alghero, Verona, Torino, Italy*)

PROTEOMIC ANALYSIS OF LYMPHOBLASTOID CELL LINE FROM HURIEZ PATIENT

P. Roncada, F. Carta, R. Fortin, O. Radi, P. Parma, G. Camerino, F. Turrini, G.F. Greppi (*Milano, Alghero, Pavia, Torino, Italy*)

A 2D DATABASE OF MILK FROM DIFFERENT SPECIES

P. Roncada, M.A. Cuccuru, F. Carta, R. Fortin, F. Turrini, G.F. Greppi (*Milano, Alghero, Torino, Italy*)

A PROTEOMICS STUDY OF NDST-1 DEFICIENT MOUSE BRAINS

O. Rönn, M. Ringvall, L. Kjellén, E. Forsberg (*Uppsala, Sweden*)

MULTIPLEXED ISOBARIC PEPTIDE TAGS AND NOVEL ADVANCES IN TOF/TOF TECHNOLOGY FOR PROTEIN IDENTIFICATION AND MULTIPLEXED QUANTIFICATION

P. Ross, Y. N. Huang, J. Marchese, N. Khainovski, B. Williamson, S. Hattan, P. Juhasz, K. Parker, S. Pillai, S. Daniels, S. Purkayastha, S. Martin, D. J. Pappin, D.H. Patterson (*Framingham MA, USA*)

IDENTIFICATION AND VALIDATION OF PLASMA MEMBRANE PROTEINS FOR ANTIBODY BASED CANCER THERAPY

K. Rothmann, S. Tortola, S. Heim, M. Hantschick, R. Steinert, L. M. Fels, T. Buschmann (*Hennigsdorf, Cottbus, Germany*)

HIGH THROUGHPUT ANALYSIS OF DNA AND PROTEIN SAMPLES BY AUTOMATED MICROFLUIDIC CHIP TECHNOLOGY

A. Rüfer, M. Kratzmeier, T. Wulff, M. Dittmann, T. Preckel, R. Salowsky, M. Kuschel, M. Greiner (*Waldbronn, Germany*)

PROTEOMIC ANALYSIS OF THE PROTOZOAN PARASITE *LEISHMANIA MAJOR* LV39

E. Sage, R. Almeida, R. Wait, A. Ivans, J. Blackwell, M. Dunn (*London, Cambridge, UK*)

ANALYSIS OF PROTEINS IN MOUSE BRAIN FRACTIONS

D. Sagi, R. Kleene, G. Nebrich, B. Esch, M. Schachner, J. Klose (*Berlin, Hamburg, Germany*)

IDENTIFICATION OF BIOMARKERS ASSOCIATED WITH SYNAPTOGENESIS IN EMBRYONIC RAT CORTICAL CULTURES

K. Salim, A. Platts, G. Richards, P.B Simpson, T. P Bonnert, P.C. Guest (*UK*)

C-TERMINAL SEQUENCE ANALYSIS OF 2D-PAGE SEPARATED PROTEINS FROM *SHEWANELLA ONEIDENSIS* USING A MASS SPECTROMETRIC LADDER SEQUENCING APPROACH

B. Samyn, K. Sergeant, J. Van Beeumen (*Ghent, Belgium*)

PLASMA PROTEIN PATTERNS IN THE LESCH-NYHAN SYNDROME

A. Santucci, G. Jacomelli, A. Paffetti, C. D'Ambrosio, A. Scaloni, V. Micheli (*Siena, Napoli, Italy*)

MASS SPECTROMETRIC ANALYSIS OF MULTI-CHAPERONE COMPLEXES DURING DEVELOPMENT OF CISPLATIN RESISTANCE IN LUNG CANCER CELLS

S.P. Saxena (*Baltimore, MD, USA*)

EXPLORING THE PROTEOME AND TRANSCRIPTOME OF *STAPHYLOCOCCUS AUREUS*

A. Scherl, P. Francois, M. Bento, J.M. Deshusses, Y. Charbonnier, V. Converset, A. Huyghe, N. Walter, C. Hoogland, R.D. Appel, J.-C. Sanchez, C.G. Zimmermann-Ivol, G.L. Corthals, D.F. Hochstrasser, J. Schrenzel (*Geneva, Switzerland*)

FAST AND AUTOMATED DETERMINATION OF PARAMETERS BY THE PPS-SYSTEM FOR THE CHROMATOGRAPHIC SAMPLE PREPARATION FOR PROTEOME ANALYSIS

H. Schlüter, J. Thiemann, J. Jankowski, T. Pohl, S. Kurzawski (*Berlin, Teltow, Germany*)

BETAGRANIN, A CHROMOGRANIN A-DERIVED PEPTIDE, INHIBITS INSULIN SECRETION

G. Schmid, M. Sennitt, M. Cawthorne, D. Hochstrasser, J.C. Sanchez (*Geneva, Switzerland; Buckingham, UK*)

PROTEOMIC ANALYSIS OF SYNAPTOSOMES USING ISOTOPE-CODED AFFINITY TAGS

S.P. Schrimpf, V. Meskenaite, E. Brunner, D. Rutishauser, P. Walther, J. Eng, R. Aebersold, P. Sonderegger (*Zurich, Schlieren, Switzerland; Seattle, WA, USA*)

CELL LYSATE ARRAYS - A NOVEL HIGH PERFORMANCE TOOL FOR SIGNALING NETWORK ANALYSIS

E. Schick, M. Pawlak, P. Oroszlan, M. Ehrat (*Witterswil, Switzerland*)

COMPARATIVE URINE PEPTIDE AND PROTEIN PROFILES IN HEALTHY INDIVIDUALS AND MULTIPLE TRAUMA PATIENTS

F.J. Schweigert, J. Raila, B. Donaubaauer, U. Kaisers, M. Deja (*Potsdam, Berlin, Germany*)

PROTEOMIC DESTINCTION BETWEEN HUMANS AND APES BASED ON PLASMA TRANSTHYRETIN MICROHETEROGENEITY USING A SELDI-TOF-MS IMMUNOASSAY

F. J. Schweigert, J. Raila, R. Mothes, K. Eulenberger (*Potsdam, Leipzig, Germany*)

PROTEOMICS OF HUMAN CEREBROSPINAL FLUID

M. Scigelova, R. Biringer, A. Huhmer, H. Amato, M. Harrington, A. Fonteh, W. Stochaj, S. Kilian, J. Pogoda, R. Chequer, R. Cowan (*San Jose, Pasadena, CA, USA*)

IDENTIFICATION OF NOVEL MARKERS ASSOCIATED WITH THE INITIATION AND/OR PROGRESSION OF RENAL CELL CARCINOMA

B. Seliger, R. Lichtenfels, D. Atkins, J. Bukur, T. Halder, M. Kersten, A. Ackermann, W. Brenner, R. Kellner, F. Lottspeich (*Mainz, Halle, Martinsried, Darmstadt, Germany*)

MALDI TOF/TOF DE NOVO SEQUENCE ANALYSIS OF N-SULFONATED PEPTIDES FROM *SHEWANELLA ONEIDENSIS* AFTER IN-GEL GUANIDINATION.

K. Sergeant, B. Samyn, G. Debyser, J. Van Beeumen (*Ghent, Belgium*)

TWO DIMENSIONAL FLUORESCENCE DIFFERENCE GEL ELECTROPHORESIS (DIGE) ANALYSIS OF HUMAN URINE PROTEOME: USE IN ANALYSIS OF HUMAN DIABETIC NEPHROPATHY

K. Sharma, S.H. Lee, S. Lee, B. Francos, S. Dunn, S. Rao (*Philadelphia, PA, USA*)

COMPARATIVE PROTEOMICS OF *BOTHROPS ATROX* SNAKE VENOM BY MASS SPECTROMETRY AND SEQUENCE SIMILARITY SEARCHES

A. Shevchenko, C.A. Ornelas Ricart, A. Shevchenko (*Dresden, Germany; Brasilia, Brazil*)

HUMAN AND RAT DIPEPTIDYL PEPTIDASE III: METALLOENZYMES WITH HIGHLY REACTIVE, FUNCTIONALLY IMPORTANT CYSTEINE RESIDUES

S. Simaga, B. Vukeli, M. Abrami (*Zagreb, Croatia*)

INVESTIGATING BY PROTEOMICS THE LOW TEMPERATURE EFFECT ON THE RESTORATION OF F508DEL-CFTR TRAFFICKING DEFECT

A. Simas, M. Roxo Rosa, G. da Costa, A.V. Coelho, D. Penque (*Lisboa, Oeiras, Portugal*)

THE USE OF 2-D ELECTROPHORESIS AND 2-D LIQUID PHASE SEPARATION FOR INTERLYSATE COMPARISON OF CANCER CELLS TREATED BY CYCLIN-DEPENDENT KINASE INHIBITOR

H. Skalnikova, Z. Ellederova, P. Halada, P. Man, P. Dzubak, M. Hajduch, M. Kubelka, J. Moos, V. Filova, H. Kovarova
(Libechov, Prague, Olomouc, Czech Republic)

PROSTATE CANCER BIOMARKER DISCOVERY BY URINE AND TISSUE 2D ELECTROPHORESIS

G. Smith, S. Jones, R. Rowlinson, S. Rayner, J. Nickson, R. Tonge (Macclesfield, Cheshire, UK)

MAPPING THE *SULFOLOBUS SOLFATARICUS* PROTEOME: COMPARISON OF PROTEIN PROFILES FROM TWO-DIMENSIONAL ELECTROPHORESIS AND LC-LC-MS-MS

A.P.L. Snijders, M.G.J. de Vos, P.C. Wright (Sheffield, UK)

A PROTEOMIC ANALYSIS OF LIVER REGENERATION: SIGNALING-PATHWAYS, ACUTE PHASE RESPONSE, AND LIPID METABOLISM CHANGE AFTER PARTIAL HEPATECTOMY

C.W. Strey, M. Winters, M. Markiewski, J.D. Lambris (Philadelphia, PA, USA)

APPLICATION OF DIGE SATURATION LABELLING FOR THE ANALYSIS OF MICRODISSECTED PRECURSOR LESIONS OF PANCREATIC ADENOCARCINOMA

K. Stühler, B. Sitek, K.Pfeiffer, J. Lüttges, S. A. Hahn, H. E. Meyer (Bochum, Kiel, Germany)

STRUCTURAL DISSECTION OF POST-TRANSLATIONAL MODIFICATIONS BY MSⁿ ON A MALDI-QIT-TOF MS

C. Sutton, R. Martin, D. Harvey, K. Tanaka (Manchester, Oxford, UK; Kyoto, Japan)

IMMUNOPROTEOMIC APPROACH FOR IDENTIFICATION OF VACCINE CANDIDATE ANTIGENS OF *Francisella tularensis* LVS

S. Szkanderova, I. Klimtova, J. Lenco, J. Stulik (Hradec Kralove, Czech Republic)

THE EFFECT OF DIFFERENT TIME OF HYPOXIA ON NEWBORN GUINEA-PIG BRAIN SYNAPTOSOMES: A PROTEOMIC STUDY

C. Tani, S. Liberatori, L. Bianchi, B. Marzocchi, O.P. Mishra, M. Delivoria-Papadopoulos, G. Buonocore, L. Bini, V. Pallini
(Siena, Italy; Philadelphia, PA, Usa)

A PROTEOMIC APPROACH TO DIFFERENTIAL PROTEIN EXPRESSION IN SKIN OF OSTEOGENESIS IMPERFECTA MURINE MODELS

C. Tani, A. Forlino, L. Bianchi, R. Cianti, A. Armini, V. Pallini, G. Cetta, L. Bini (Siena; Pavia, Italy)

PEPTIDOMIC ANALYSIS OF PLASMA SAMPLES AFTER ORAL ADMINISTRATION OF GLUCOSE

H. Tammen, I. Schulte, M. Kellmann, M. Schrader, R. Hess, P. Schulz-Knappe (Hannover, Germany)

ANALYSIS OF THE CYTOSOLIC PROTEOME OF *HALOBACTERIUM SALINARUM* AND ITS IMPLICATION FOR GENOME ANNOTATION

A. Tebbe, C. Klein, B. Bisle, F. Siedler, B. Scheffer, C. Garcia-Rizo, J. Wolfertz, V. Hickmann, F. Pfeiffer, D. Oesterhelt
(Martinsried, Germany)

CHARACTERIZATION OF NITROPROTEOME IN NEURON-LIKE PC12 CELLS

G. Tedeschi, G.Cappelletti, S. Ronchi, S. Nonnis, L. Pagliato, F. Taverna, M.G. Maggioni, R. Maci, A. Negri (Milano, Italy)

PROTEOME ANALYSIS OF GLUTAMINE-TREATED HUMAN INTESTINAL EPITHELIAL CELL LINE HCT-8

S. Thébault, S. Lemoulan, F. Duchaussoy, R. Marion, F. Guinand, R. Charlionet, P. Ducrotté, P. Déchelotte
(Rouen, Le Havre, France)

DIFFERENT STRATEGIES FOR THE PROTEOME ANALYSIS OF APOPTOSIS-MODIFIED PROTEINS

B. Thiede, A. Kretschmer, N. Machuy, T. Rudel (Berlin, Germany)

PINXIT: AMBIGUITY ANALYSIS IN LARGE-SCALE MS-BASED PROTEIN IDENTIFICATION

G.R. Thomas, K. Gevaert, L. Martens, J. Vandekerckhove (Gent, Belgium)

AN INTEGRATED PROTEOMICS WORKFLOW SYSTEM TO SUPPORT BIOMARKER DISCOVERY PROJECTS

R. Tonge, D.Jackson, G.Smith, J.Shaw, J.Nickson, R.Rowlinson, S.Jones, S.Rayner, D.Cook, J.Crawford, A.Borthwick,
I. Sanders (Newcastle upon Tyne, UK)

HDL- HUMAN ATRIAL NATRIURETIC PEPTIDE INTERACTION MAY PREVENT THE FORMATION OF AMYLOID FIBRILS

C. Torricelli, E. Capurro, A. Santucci, A. Paffetti, C. D'Ambrosio, A. Scaloni, E. Maioli, A. Pacini (Siena, Napoli, Italy)

SEARCHING FOR BIOMARKERS OF AURORA-A KINASE ACTIVITY: IDENTIFICATION OF IN VITRO SUBSTRATES THROUGH A MODIFIED KESTREL APPROACH COUPLED TO NANO-LC/MSMS

S. Troiani, M. Uggeri, J. Moll, A. Isacchi, H.M. Kalisz, L. Rusconi, B. Valsasina (Nerviano, Milano, Italy)

DIRECT PEPTIDE PROFILING OF MICRODISSECTED BREAST CANCER CELLS

A. Umar, M. Timmermans, J. Foekens, T.M. Luider (*Rotterdam, The Netherlands*)

TOWARDS A FULL CHARACTERIZATION OF THE HUMAN 20S PROTEASOME SUBUNITS BY A COMBINATION OF PROTEOMIC APPROACHES

S. Uttenweiler-Joseph, S. Claverol, M. P. Bousquet-Dubouch, L. Sylvius, O. Burette-Schiltz, B. Monsarrat (*Toulouse, France*)

PROTEIN EXPRESSION DURING SKELETAL MYOBLAST DIFFERENTIATION *IN VITRO*

L. Vallorani, F. Luchetti, R. Pierleoni, R. Curci, A.M. Gioacchini, M. Menotta, E. Falcieri, V. Stocchi (*Urbino, Italy*)

PROTEOME PROFILE OF HUMAN URINE WITH 2D LIQUID PHASE FRACTIONATION

C. Valsecchi, C. Sarto, F. Magni, P. Mocarelli (*Desio, Milano, Monza, Italy*)

GROWTH AND SURVIVAL SIGNALING PATHWAYS IN BREAST CANCER CELLS : A PLAYING FIELD FOR PROTEOMICS

F. Vandermoere, I. El Yazidi-Belkoura, E. Adriaenssens, E. Com, J. Lemoine, H. Hondermarck (*Lille, France*)

THE RATIO BETWEEN AMINO-MODIFIED β -AMYLOID₄₂ PEPTIDES IN CEREBROSPINAL FLUID COULD ALLOW PREDICTION OF PROGRESSION OF MILD COGNITIVE IMPAIRMENT TO ALZHEIMER'S DISEASE

H. Vanderstichele, V. De Brabandere, L. Demeyer, V. Mortier, S. Van Remoortere, P. Callebaut, V. Kostanjevecki, K. Blennow, E. Vanmechelen (*Ghent, Belgium; Mölndal, Sweden*)

ANALYSIS OF *IXODES RICINUS* (ACARI: *IXODIDAE*) NYMPHS AND THE VECTOR-PATHOGEN-HOST INTERACTION BY TWO DIMENSIONAL GEL ELECTROPHORESIS AND MALDI-TOF-TOF

J. Vennestroem (*Frederiksberg, Denmark*)

PROTEIN EXPRESSION IN SLOW AND FAST TYPE MUSCLE FIBERS

A. Viganò, R. Bottinelli, R. Wait, P. Cerretelli, C. Gelfi (*Segrate, Milano, Pavia, Italy; London, UK*)

ENAMEL PROTEIN COMPOSITION AND DENTAL CARIES: A PROTEOMIC APPROACH

R. Vitorino, R. Ferreira, S. Guedes, M. Calheiros Lobo, J. Duarte, A.J.F. Correia, P. Domingues, F. Amado (*Aveiro, Porto, Portugal*)

DIFFERENTIAL SECRETOMICS TO DETECT SMAD4 REGULATED SECRETED BIOMARKERS IN COLON AND PANCREAS CANCER

M.W. Volmer, M. Zapatka, K. Stühler, W. Schmiegel, H.E. Meyer, I. Schwarte-Waldhoff (*Bochum, Germany*)

A NEW APPROACH TOWARDS AN AUTOMATED BIOMARKER SEARCH IN SELDI PROTEINCHIP PROFILING STUDIES

A. Voss, A. Barinka, A. Wirthlin, F.H. Grus (*Mainz, Germany; Baar, Switzerland*)

PIQS - PARENT ION QUANTITATION SCANNING

A. Wahlander, P. James (*Lund, Sweden*)

HIGH VALUE, LOW VOLUME, CELL AND SAMPLE PREFRACTIONATION

B. Walsh, A. Debril, P. Diakos, G. Randall, V. Locke, D. Van Dyk (*Sydney, Australia*)

TPR, THE CENTRAL ARCHITECTURAL ELEMENT OF THE NUCLEAR BASKET, INTERACTS WITH A DISTINCT SET OF RNA-BINDING PROTEINS

S. Wandschneider, S. Krull, P. Kreivi, J. Thyberg, M.E. Hase, H.R. Rackwitz, M. Schnölzer, V.C. Cordes (*Heidelberg, Germany; Stockholm, Uppsala, Sweden*)

EXPLAINING ION INTENSITY RELATIONSHIPS FOR THE MS/MS SPECTRA OF PROTONATED PEPTIDES.

U. Warnken, B. Paizs, M. Schnölzer, S. Suhai (*Heidelberg, Germany*)

2D LC-MS/MS ANALYSIS OF GRADIFLOW™ FRACTIONATED NATIVE HUMAN PLASMA

V.C. Wasinger, V.L. Locke, M.J. Raftery, M. Larance, D. Rothmund, A. Liew, I. Bate, M. Guilhaus (*Kensington, Frenchs Forest, Australia*)

PROTEOMIC ANALYSIS OF A THROMBOCYTE MEMBRANE FRACTION USING A NOVEL GEL FREE APPROACH

T.M. Wendrich, S. Bek, M. Herrmann, J. Kruij, A. Pfenninger, J. Schwarz, C. Hamon (*Frankfurt, Germany*)

SUB-CELLULAR PRE-FRACTIONATION FOR CHARACTERIZATION OF THE RABBIT MYOCARDIAL PROTEOME

M.Y. White, B.D. Hambly, R.W. Jeremy, S.J. Cordwell (*Sydney, Australia*)

PROTEOMICS REVEALS CHANGES TO MULTIPLE FUNCTIONAL GROUPS FOLLOWING ISCHEMIA / REPERFUSION INJURY

M.Y. White, S.J. Cordwell, H.C. McCarron, A.S. Tchen, B.D. Hambly, R.W. Jeremy (*Sydney, Australia*)

PROTEOMIC ANALYSIS OF IRON DEFICIENCY IN MYCOBACTERIA

M.L. Wilkins, J. Vaughan, M. Lanigan, G. Beddome, B. Shiell, R.K.J. Luke, M. Tizard, W.P. Michalski (*Geelong, Bundoora, Australia*)

CHEMICAL PROTEOMIC ANALYSIS REVEALS NOVEL CELLULAR MODES OF ACTION FOR PYRIDO[2,3-D]PYRIMIDINE KINASE INHIBITORS

J. Wissing, K. Godl, D. Brehmer, S. Blencke, M. Weber, P. Habenberger, M. Stein-Gerlach, A. Missio, M. Cotten, S. Müller, H. Daub (*München, Germany*)

CHEMICAL TAGGING AND PROFILING OF LYMPHOCYTE PLASMA MEMBRANE GLYCOPROTEINS BY MASS SPECTROMETRY

B. Wollscheid, R. Aebersold, J.D. Watts (*Seattle, USA*)

THE PROTEOMICS OF TWO BIOTOXINS: YESSOTOXIN AFFECTS RNA PROCESSING PROTEINS; SPORIDESMIN MODIFIES A RESTRICTED SET OF SOLVENT-EXPOSED CYSTEINES

C. Young, A. Bala, M. Johnson, P. Truma, T.W. Jordan (*Wellington, Porirua, New Zealand*)

PROTEOME ANALYSIS OF RADIATION-INDUCED HUMAN THYROID CARCINOMAS

E. Zeindl-Eberhart, S. Liebmann, P. Jungblut, J. Mattow, H. M. Rabes (*Munich, Berlin, Germany*)

PLATELET PROTEOMICS: A TOOL TO ANALYSE AGE-RELATED CHANGES IN THE PROTEIN EXPRESSION PROFILE

M. Zellner, W. Winkler, I. Miller, M. Chang, J. Grillari, A. Staes, K. Hugelier, J. Vandekerckhove, K. Gevaert, R. Oehler (*Vienna, Austria; Ghent, Belgium*)

PROTEIN AND BIOMARKER QUANTITATION USING ITRAQ™ REAGENTS, A NOVEL SET OF MULTIPLEXED AMINE-SPECIFIC TAGGING REAGENTS

L.R. Zieske, P.L. Ross, S. Purkayastha, J.D. Haley, J. Peltier, D.J. Pappin (*Foster City, CA; Framingham MA; Farmingdale, NY; Salt Lake City, Utah, USA*)

PARALLEL ISOELECTRIC FOCUSING CHIP

G.V. Zilberstein, L.E. Korol, S. Bukshpan, E. M. Baskin (Rehovot, Israel)

DISTRIBUTION AND VISUALISATION OF URINE PROTEIN PROFILE WITH THE MOLECULAR SCANNER

C.G. Zimmermann-Ivol, A. Vaezzadeh, V. Converset, C. Hoogland, D. Walther, S. Catherinet, M. Tuloup, C. Hernandez, M. Müller, S. Moll, G.L. Corthals, C. Pasquarello, R. Appel, D.F. Hochstrasser (*Geneva, Switzerland*)

PROTEOME ANALYSIS OF ETIOPLAST TO CHLOROPLAST DEVELOPMENT REVEALS INSIGHTS INTO REGULATORY MECHANISMS OF PLASTID BIOGENESIS

A. von Zychlinski, T. Kleffmann, D. Russenberger, K. Sjölander, W. Gruissem, S. Baginsky (*Zurich, Switzerland; Berkeley, CA, USA*)